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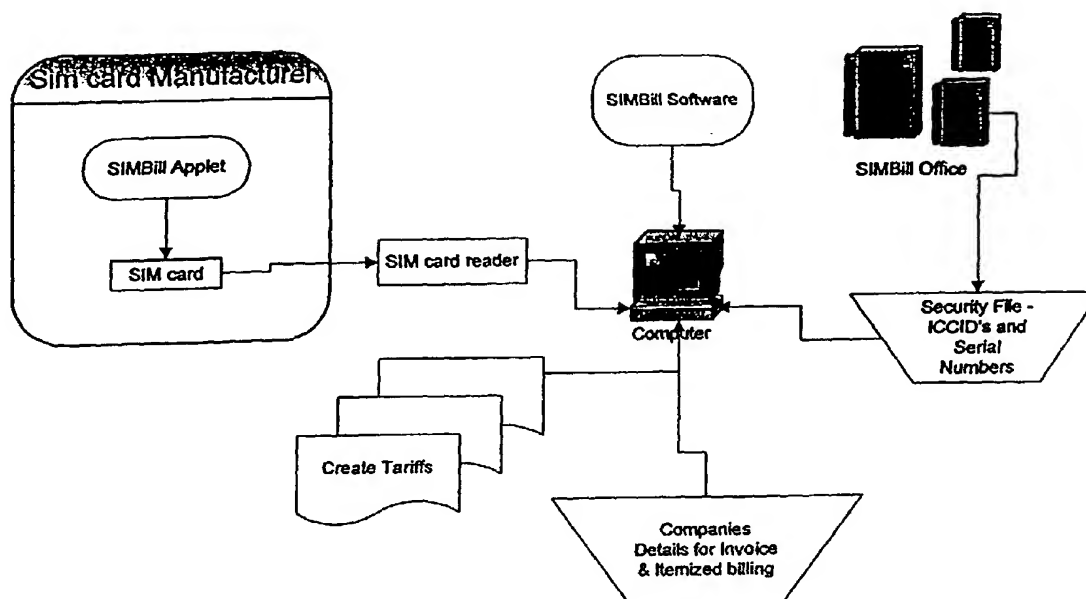
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(54) Title: METHODS AND APPARATUS FOR MONITORING AND RETRIEVING INFORMATION AND TIME USAGE



(57) Abstract: A method of billing usage of hired telephones and apparatus therefor. A hirer is supplied with a plurality of telephones and SIM cards, SIM card reader/writer, host processor and software for the reading, writing and programming of SIM cards. A user hiring a telephone is supplied a telephone with a programmed SIM card. The SIM card records billing information for calls made using the telephone which are later charged to the user. The SIM card may alternatively store a credit amount from which call charges are deducted. On the SIM card the hirer may create and alter credit limits, store customer information, set tariffs for calls and information used to block disallowed calls.



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**METHODS AND APPARATUS FOR MONITORING AND RETRIEVING
INFORMATION AND TIME USAGE
TECHNICAL FIELD**

5 The present invention relates to methods and apparatus for monitoring and retrieving information on airtime usage and has particular relevance to monitoring and retrieving information using a SIM (subscriber identify module) card in conjunction with a GSM (global system for mobile communications) handset.

10 The following acronyms and the common meanings of same are incorporated in the description of the present invention;

GSM Global System for Mobile Communications

SIM Subscriber Identify Module

ME Mobile Equipment

OTA Over The Air

15 **SMS** Short Message Service

API Application Program Interface

MMI Man-Machine Interface

OS Operating System

MO Mobile Originated

20 **MT** Mobile Terminated

NC Network Code

CC Country Code

BACKGROUND ART

25 A large number of countries of the world have sanctioned and facilitate the use of GSM telephones based on the use of SIM card technology.

 Whilst there is no problem in general monitoring the usage of portable telephones the present monitoring and billing systems are not suitable for casual users by way of subscription. Monitoring and billing
30 functions are generally operated by a centralised computer operated by the provider.

 Telephone service providers are on tight margins and in order to

avoid the possibility of bad debts, and discontinuity of service at the inconvenience to the customer, there is a need for an instant billing or "recharge" system for casual line usage.

If for example a portable telephone was rented by a hotel rental
5 car company or the like, when the telephone is returned it is desirable that all payments in relation to usage are settled at the time of the return.

The line provider's computer database for billing enquiries would not be directly accessible by the persons renting the telephone and settlement of an account is likely to be delayed or on a credit basis for that reason.

10 There have been a number of systems proposed for controlling cellular telephone usage some with accounting systems relating to usage.

United States Patent no. 5,761,624 entitled "Method and Apparatus for controlling and recording cellular phone transactions using an integrated circuit card" describes a cellular phone call management system
15 using a microprocessor-controlled remote card reader interface for a cellular telephone system to record calls onto a card as they are placed or received.

A microprocessor reads information from a card placed in the remote card reader and ensures the card is valid.

The cellular telephone's transceiver logic bus is monitored to
20 determine the transaction information of a call as it is placed or received.

After the call is completed, the call transaction information is recorded on the card. When all calls are complete, the card is placed in a host card reader attached to a host computer where the call transaction information is read from the card, processed, and written to a host storage
25 device.

The call transactions may then be analyzed and reports may be generated and printed by host computer software.

This methodology uses a so-called smart card, technologies allow for only minimal data storage does not re-tariff, requires specialised
30 equipment, and is designed for use at fixed locations. The system does not re-tariff calls or set call limits.

United States Patent no 5,631,947 entitled "Mobile telephone device for storing a plurality of changeable charge rates and time of limit data"

describes a system where a mobile telephone is adapted for use as a rental phone.

It has an on-board computer which computes and stores telephone usage of the telephone.

5 Time and charge limits can be set for the telephone.

For example, the telephone can be set to disable itself for all or a selected category of incoming and outgoing calls after the passage of a pre-determined time, and/or when the total usage charges reach set and adjusted remotely.

10 The telephone is for use in rental vehicles. The telephone is adapted to deliver its stored information when called and interrogated by use of a computer at a station when the rental vehicle is returned.

The telephone can be checked-out and enabled, and the time and charge limits adjusted, all from the same remote station.

15 The telephone is also particularly valuable in other types of rentals, such as in hotel or motel where the mobile telephone is housed in a portable briefcase or carrying case. The time and charge limits are enforced automatically, and can be changed remotely, as with other versions of the telephone device.

20 Features also are provided to block unwanted calls intended for a prior renter of the phone; to give charge credits for "dropped calls"; and for selectively locking the phone to prevent unauthorised use for all but emergency calls, data transmission and similar calls.

25 This methodology is designed to be incorporated in rental vehicles, charging is based on a set tariff, and requires and again requires a user to purchase additional specialised equipment

30 International patent application no. W096/24229 entitled "Mobile phone with internal accounting" describes a mobile phone system with a mobile phone having internal accounting capabilities for real time call debiting to account for the billing parameters of a mobile phone unit that is operated in a multi zone communication network with a complex rate structure, the mobile phone unit having an internal processor with accessible internal memory for storing the accounting program and call data for each call, the accounting

program including an updateable rate table and a complex billing algorithm such as long distance calls, international calls, and charges, for roaming per day and/or per minute, where the account status of the mobile is calculated in real time for decrementing a debit account, the mobile debit phone having a
5 signal for alerting the user of account status, the mobile phone system including communication system for activating and programming a new phone unit and upgrading the account status in rate table in the phone unit over the airways.

This methodology again involves specialised equipment and
10 adaption and provide limited information and access regarding telephone usage.

United States Patent no, 5,915,226 entitled "Prepaid smart card in a GSM based wireless telephone network and method of operating prepaid cards" describes a prepaid smart card to be used in a wireless telephone
15 network, and methods of prepaying for wireless telephone services, as well as systems for operating a wireless telephone network with prepaid smart cards.

The cards, methods and systems permit the use of wireless telephones anonymously, and/or the payment by a user without having a
20 subscription.

The invention requires minimal changes to the existing wireless telephone network, yet provides security against abuse or fraudulent use of the telephone system.

Additionally, promotional material may be provided with the
25 prepayments, and persons may prepay into a subscriber's telephone.

This methodology is based on prepaid smart cards, does not allow for tariffs to the varied, and the cards used are not re-programmable . It also lacks a roaming feature.

It is an objective of the present invention to provide a SIM card
30 based rental system which can be adopted by a user without the need to purchase specialised equipment and which provides a comprehensive and adaptable user accounting package.

It is a further object of the present invention to provide a system

which will send tariffs and other relative information to the EEPROM of the SIM, and inter alia, bill call and SMN usage real-time with a pre-set balance, store call and SMS usage to the EEPROM of the SIM, allow the then user to view call usage in metres via the MMI of the GSM handset, change tariffs or
5 other information stored in the EEPROM of the SIM via the SMS message, generate a MO SMS notification message sent for new rental and low balance warning, contain a built-in memory corruption detection and correction system.

Further objects and advantages of the present invention will
10 become apparent from the ensuing description which is given by way of example only.

DISCLOSURE OF INVENTION

According to the present invention there is provided a method of billing the usage of mobile telephones comprising the steps of:

- 15 (a) Entering a user program onto a SIM card,
(b) Supplying a hirer with the programed SIM card and software required for rendering accounts and controlling the use of the mobile telephones upon the termination of a hire period.

The software enables the hirer or to set tariffs and credit limits,
20 independently of network suppliers.

The user program and software enables the hirer to add or deduct credit over the air using SMS systems.

The user program provides the hirer with the ability to;

- 25 (a) create and alter credit limits,
(b) store customer information,
(c) set tariffs for calls,
(d) block disallowed calls.

The user program provides the hirer with the ability to allow free calls at its discretion.

30 According to a further aspect of the present invention there is provided a SIM card resident cellular phone billing system for performing the aforesaid method the system comprising;

- (a) a host processor unit having a P.C. application, and

(b) a SIM card reading apparatus adapted to access and applet associated with the SIM card, characterised in that the host processor at point of issue is programmable using the P.C. application to control the use of a cellular phone and on return of the cellular phone to its point of issue, and re entry of the SIM card to the SIM card reader, to read the SIM card and generate information as to its usage.

The program of the host processor can transfer information on call costs to the SIM card.

The program of the host processor can transfer information relating to the telephone user to the SIM card.

The program of the host processor can read information stored on the SIM card relating to calls made, numbers dialled and tariffs associated with the calls.

The system can include a cellular phone modem which enables over the air programming and adding or amending credit balances of a SIM card.

According to still further aspect of the present invention therefor there is provided a method of monitoring telephone airtime usage for rental customers comprising means for creating, deleting and editing tariff plans, means to read and write information to the EEPROM of a SIM via the SIM card reader, and means providing a security system for SIM rentals and creating an SMS message user data for changing information in the SIM, display and print call usage.

An application / program may be written in Java and embedded into a SIM card that supports version 2 of Sun's JavaCard and supports SIM Toolkit 2+, including event download.

The basic functionality of this application is to bill, restrict, and store call and SMS usage.

This application also has a pre-set balance that decrements for each call and SMS message, when the balance is depleted the application restricts the subscriber from making another call or SMS message.

This application uses the event download of the SIM Toolkit from the ME to determine when a call is connected and disconnected.

This application also uses the event download for a MO or MT SMS message.

This application reads and writes all information to the EEPROM of the SIM at the beginning, during, and at the end of a call.

5 This information is broken down into the meter, tariff, and call tables.

The application displays the balance and call information (i.e. number, charge, and tariff) to the MMI of the ME via the SIM Toolkit.

10 The subscriber has the ability to scroll through the calls and SMS messages made and view the relative information.

The rental process consists of a SIM card with the embedded application, the ME, the SIM card reader and the Windows PC application.

15 The SIM card's EEPROM is initialized via the SIM card reader at the time of rental (i.e. balance and tariffs).

The subscriber then proceeds to make calls and SMS messages until the balance is depleted.

20 The MS and the SIM card is then returned by the Window PC application reading the calls and SMS messages made. This completes the rental processes.

A security risk may occur if the SIM card is removed from the MS and inserted into another MS that does not support event download. This problem can be solved if the SIM has the ability to check if the MS supports event download and if it doesn't lock the SIM.

25 Another solution is to lock the SIM and MS at the network level.

There is no risk in roaming because the rental application has the ability to bill or restrict roaming. Therefore the SIM card should allow roaming.

30 The following tables in this section may be stored in EEPROM that are used by the rental application. This information is read and written one record at a time.

Table Meter

The meter table contains the balance and other setup information for

the rental application. The size of the table is 11 bytes and there is only 1 record stored in EEPROM.

Bytes	Description	Length
1-2	Initialized	2
3-4	Balance	2
5	Seconds in cycle	1
6	Minimum seconds	1
7	Cyclical call storage	1
8-9	Current call	2
10-11	Last call	2

Table Tariff

- 5 The tariff table contains the information for calculating the cost for a MT call, MO call, MT SMS message, or MO SMS message. The size of the table is 19 bytes and there are 100 records stored in EEPROM.

Bytes	Description	Length
1	Type	1
2-3	Country code	2
4-5	Network code	2
6	Barred	1
7-8	International code	2
9-17	Pattern	9
18-19	Tariff	2

Table Call

- 10 The call table contains information of the call or SMS message that occurred. The size of the table is 20 bytes and there are 100 records stored in EEPROM.

Bytes	Description	Length
1	Type	1
2-3	Country code	2
4-5	Network code	2
6-14	Number dialed	9
15-16	Tariff	2
17-18	Length	2
19-20	Charge	2

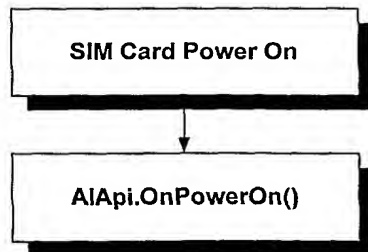
Functional Flow

5 This section describes the functional flows of the SIM based rental application.

Power On

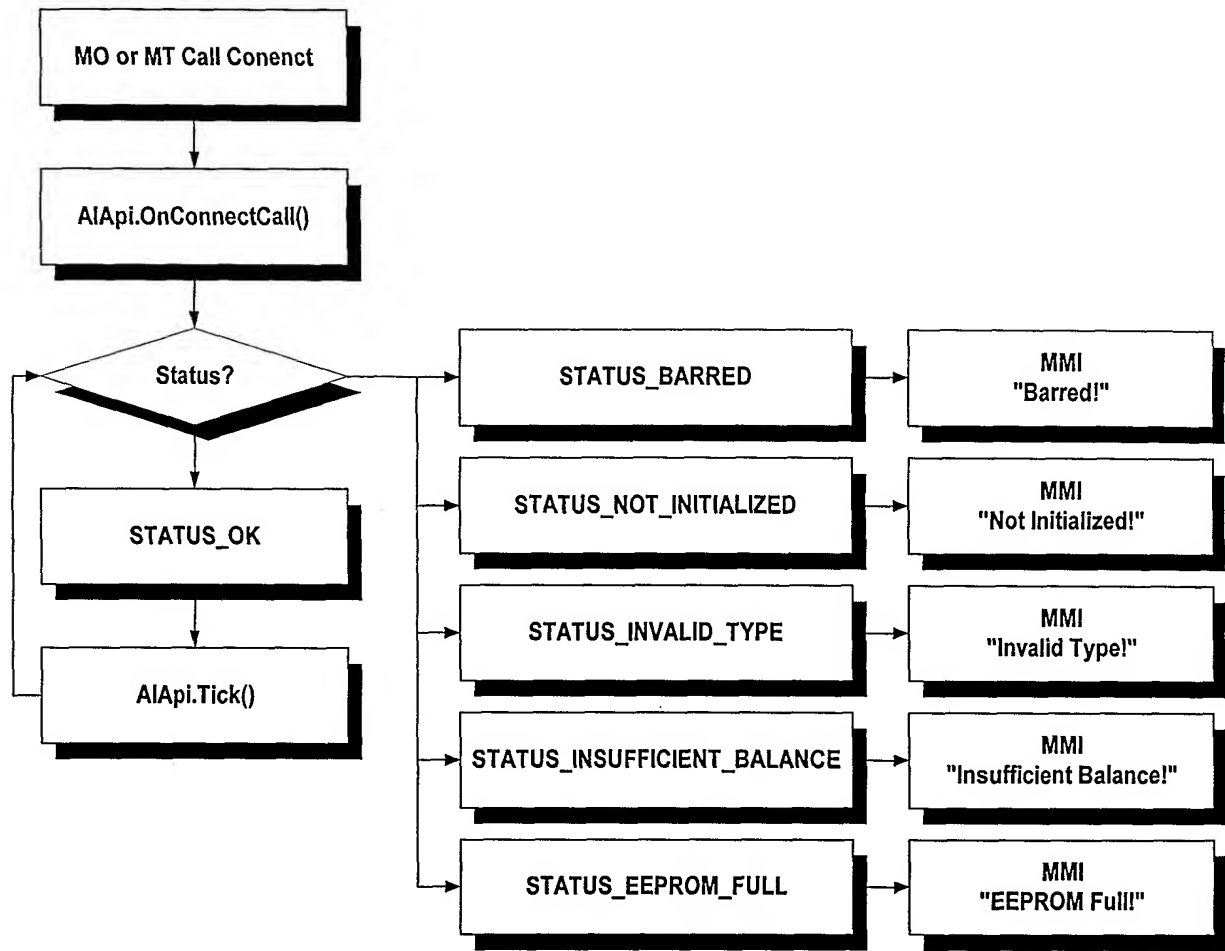
The following diagram describes the functional flow for when the SIM card powers on.

10



MO or MT Call Connect

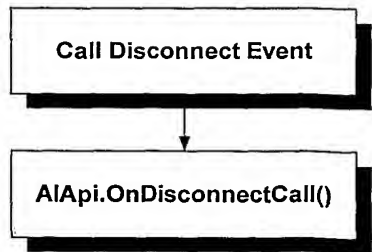
15 The following diagram describes the functional flow for a MO or MT call connect.



5

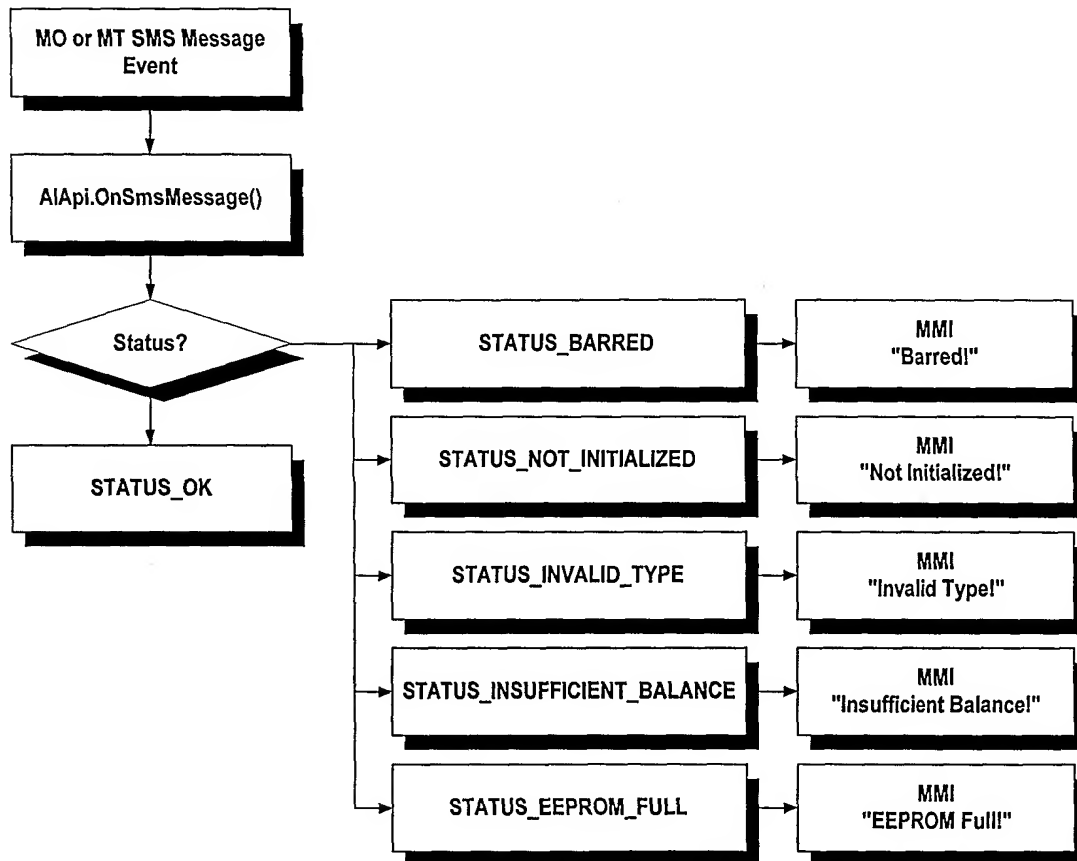
Call Disconnect Call

The following diagram describes the functional flow for a call disconnect.



MO or MT SMS Message Event

The following diagram describes the functional flow of a MO or MT SMS message event.



5

MMI

The MMI for the rental application consists of the balance and display the call information. The MMI has the ability to scroll through the calls to display the information.

10

API

The API methods are found in the class AlApi. The following methods are used to interface with the application.

15

Method On Power On

This function is required to be called when the SIM card powers

on. This function reads table meter from EEPROM.

ξ Parameters

None.

ξ Return Values

5 None.

Method On Connect Call

This function is required to be called when the SIM card receives a connect event message. This function calculates the tariff of the call, determines if the call is barred, and saves data to EEPROM.

10 ξ Parameters

bType Type of call (i.e. TYPE_MT_CALL or TYPE_MO_CALL).

sCountryCode The current country code the MS registers from the network.

15 **sNetworkCode** The current network code the MS registers from the network.

bNumber Number dialled for a MO call.

sLengthOfCall Length of the number dialled for a MO call.

ξ Return Values

20 Returns STATUS_OK if the function succeeds and any other value if the function fails.

Method Tick

This function is required to be called when during a MO or MT call as frequently as possible. The number of ticks represents the number of seconds that have elapsed from the last time this function was called.

25 ξ Parameters

sNumberOfTicks Number of seconds that have elapsed from the last time this function was called.

ξ Return Values

Returns STATUS_OK if the function succeeds and any other value if the function fails.

Method On Disconnect Call

5 This function is required to be called when the SIM card receives the disconnect event message. This function terminates the call.

ξ Parameters

None.

ξ Return Values

10 None.

Method On Sms Message

Processes the MT or MO SMS message.

ξ Parameters

15 **bType** Type of message (i.e. TYPE_MT_SMS or TYPE_MO_SMS).

sCountryCode The current country code the MS registers from the network.

20 **sNetworkCode** The current network code the MS registers from the network.

ξ Return Values

Returns STATUS_OK if the function succeeds and any other value if the function fails.

Method Get Call

Retrieves the requested call record.

ξ Parameters

BNavigationType Navigation type.

ξ Return Values

Returns STATUS_OK if the function succeeds and any other value if the function fails.

5

Method Get Data

Returns the ASCII representation of the data type requested.

ξ Parameters

bType Type to represent in ASCII.

bBuffer Target buffer the ASCII is written to.

10

sSizeOfBuffer Size of the target buffer.

ξ Return Values

Returns STATUS_OK if the function succeeds and any other value if the function fails.

Aspects of the present invention will now be described with
15 reference to the accompanying drawings with reference to the accompanying drawings in whereith;

Figure 1: is a schematic drawing of system components for a billing system according to the present invention, and

Figure 2: is a schematic drawing of a rental company operation
20 using the system of figure 1, and

Figure 3: is a schematic drawing of the use procedures of a hired telephone, and

Figure 4: is a schematic drawing indicating the means by which a hired telephone is updated with a new credit, and

Figure 5: is a schematic drawing indicating the procedures adopted
25 in closing off a hire period.

With respect to figure 1 of the drawing the service provider (SIMBILL) adds an applet to a SIM card and the card is entered into a users card reader. SIMBILL software is then entered into the users computer as will
30 as the companies details. The provider sends on a security file to the users computer and the user is then able to create tariffs.

As illustrated by figure 2 having selected a tariff and entered rental customer details the user enters a credit limit and rents a telephone.

As is indicated by figure 3 a number controls and checks can be made on the rental telephone and each call made is subject to the procedures
5 and data mordals indicated.

As indicated by figure 4 whilst the telephone whist the telephone is out on hire the user is able to SMS message the telephone and update credits.

Finally as illustrated by figure 5 on return of the telephone
10 individual SIM cards can be placed in a reader and an up-to-the-minute it email bill produced.

The provider (SIMBILL) user manual marked ATTACHMENT is annexed hereto for the purpose of further explanation of the present invention.

There are many advantages of this invention both technical and
15 commercial; including.

1.1 The application is embedded into the SIM card so that it will work with any GSM that supports phase II of the SIMToolkit.

1.2 Since the SIMRent application is embedded into the SIM card the handset is allowed to roam on any GSM network because the application
20 has the ability to capture the location network information and bill real-time. This real-time billing capability, roaming, isn't currently offered in the market place.

1.3 The SIMRent application also allows the subscriber to view their current balance and calls/SMS usage on the MMI (Man-Machine-Interface) of
25 the handset. This on demand MMI capability is not currently available.

1.4 The rental company has the ability to update and retrieve information from the SIMRent application via the SMS (Short-Message-Service) message (i.e.update balance or retrieve calls).

1.5 The SIMRent application has the capability to bill for national
30 calls, international calls, emergency calls, roaming calls, and SMS messages real-time. The application can also barr any call or SMS message and restrict any usage when the balance is depleted.

1.6 The SIMRent application allows for any hotel, rental car agency

or network operator to easily and securely rent GSM handsets and provide a itemized bill of the usage on demand.

Aspects of the present invention have been described by way of example only and it will appreciated that modifications and additions thereto
5 may be made without departing from the scope thereof, as defined in the appended claims.

ATTACHMENT

SIMBill help

SIMBill

Copyright

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Installation

Setup

Connect the SIM CARD READER to a COM port on your computer and connect the PS2 plug into the keyboard/mouse or PS2 Connector. The PS2 connector, has an adaptor to take the keyboard/mouse plug if required.

Insert CD and follow instructions.

The setup wizard will guide you through the installation process.

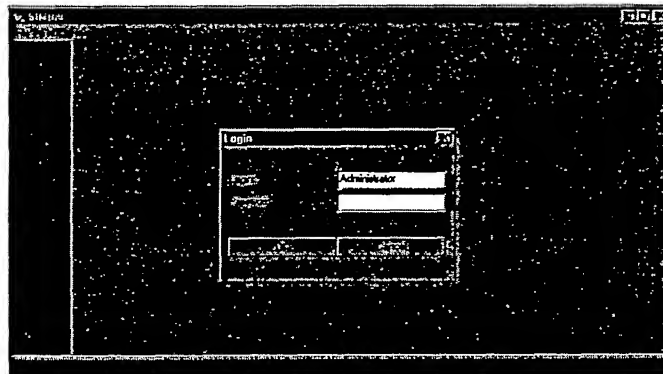
You must register SIMBill before you can use the program.

The following steps will assist you in completing the registration.

After you have completed the SIMBill installation. Double click the SIMBill Icon on your desktop.

A SIMBill blank screen and logon window will appear.

YOU CANNOT LOG ON AT THIS TIME. Logging on is only possible once you have registered your software and received a registration file.



Click **"Cancel"** on the logon window to hide it, **FILE**, **SMS** and **HELP** can be seen on the task bar.

Click on **Help** then click **about**.

Registering

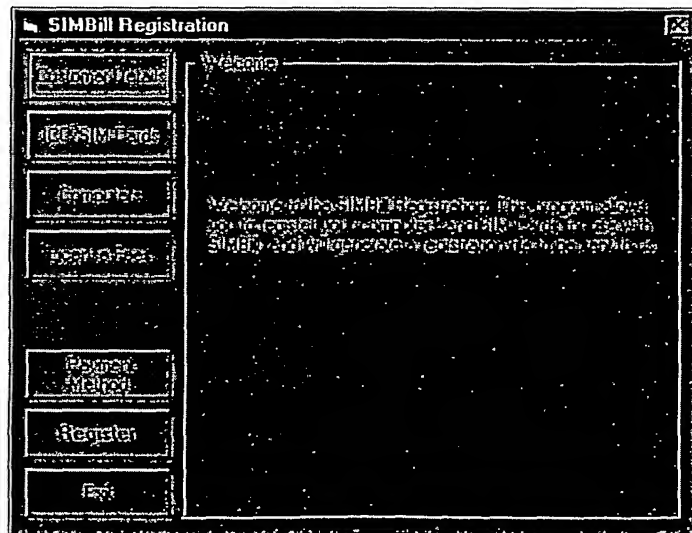
Completing the registration form

This form must be completed prior to operation of any SIMBill software.

Insert the installation CD,

Click on the **SIMBill Registration Icon**

You will see 7 blocks on the left of the window



22

Customer Detail**ICCID/SIM Cards****Computers****License Fees****Payment Method****Register****Exit**Click on "**Customer Details**"

Fill in all the detail fields.

You will be asked to confirm your e-mail address and security password.

The security password you enter will be the Administrator password required to login to the program, access administration functions and for any future enquiries and registrations. Please remember this password as it is not changeable.

Click on "**Save**"Click on "**ICCIDSIM Cards**"

Your Service provider should have supplied you with SIMBill enabled sim cards *If the sim cards are not SIMBill enabled they will no operate on this program* Please ensure this with your Service Provider. If you did not receive a list of the sim card numbers (ICCIDD) the number is usually printed on each sim card in small black type usually 20 numeric characters. If the ICCID's are not printed on the sim cards you will need to obtain these Sim card numbers from your service provider.

Click on "**Add sim**"Enter one ICCID number then "**OK**"

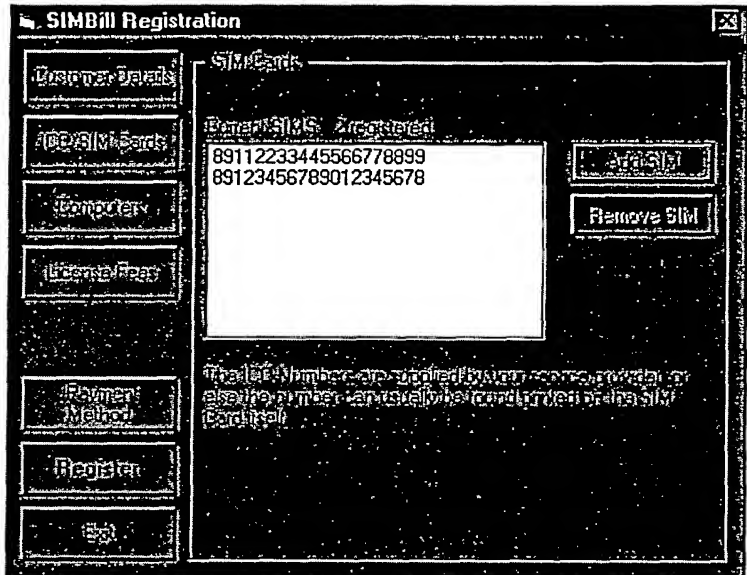
23

If you saved a file of your ICCID numbers click **Import** and select the file this will add all your ICCID's.

Repeat until you have listed all your simcards

A counter on the top of the window will tell you how many you have entered along with a list of the numbers you have entered.

Please add every sim card's ICCID number by clicking the Add SIM The ICCID number should be printed on the sim card or supplied to you by your service provider



Now Click on "Computers"

Click on the first "Add PC" (SIMBill) box.

Add the serial numbers of the SIMBill programs you obtain when you installed the SIMBill Software on each Computer. (You can get the serial number by clicking on the SIMBill icon. Cancel the logon, click on help then about. The serial number is displayed on the bottom of the window) Make sure you add all SIMBill serial numbers from each computer.

Click on the second "Add PC" (SIMBill Messenger) box, if applicable

Add the SIMBill Messenger product serial numbers obtained when you installed SIMBill Messenger in this box, Again one serial number for each computer.

You can obtain these serial numbers by clicking on the SIMBill Messenger Icon on your desktop, if the program is not registered a registration screen will appear with the serial number displayed.

Click on the third "Add PC" (SIMBill SIMBill Reports) box, if applicable

Add the SIMBILL Reports product serial numbers obtained when you installed SIMBILL Reports in this box, Again one serial number for each computer.

You can obtain these serial numbers by clicking on the SIMBill Reports Icon on your desktop, if the program is not registered a registration screen will appear with the serial number displayed.

The top box should have all the serial numbers you obtained when you installed SIMBill on each computer.

The second box should have the SIMBill Messenger serial numbers for the computers on which you installed SIMBill Messenger

The last box should have the SIMBill Reports serial numbers for the computers on which you installed SIMBill Reports

SIMBill Registration

Enter the following information for each computer on which you installed SIMBill. The information will be used to generate a registration key.

SIMBill Systems Encountered:

121345654	Remove PC
654654	Remove PC
879879874	Remove PC

SIMBill Messenger Serials:

654654	Remove PC
--------	-----------

SIMBill Reports Serials:

654654	Remove PC
--------	-----------

Click on License fees.

This is a text file listing all license fees and charges.

Please note these prices may not be correct at time of registration.

The registration software will automatically calculate all charges at the end of registration.

This is only an information screen no input is required

SIMBill Registration

Click on the following information from the file.

License fees

Calculate the license fee payable by the following fees table.

ALL AMOUNTS IN US DOLLARS.

Computer licenses

First three included with your SIMBill CD starter pack.
Additional Computers US\$50 per computer once off no annual charge.

SIMBill Messenger US\$280 for the initial license followed by \$150 per additional computer. No

25

Then click on "Payment Method"

You total cost will be displayed

Complete the method of payment.

If the amount payable is not correct go back to Computers or ICC/SIM Cards to correct

Then click on register.

Print – Will print a hard copy for faxing or sending by post

Save To Disk – will create a file to e-mail.

This file should always be e-mailed even if posting.

The information on the registration file will be saved. When you need to again purchase additional software or add Sims run this registration program by clicking on the Registration Icon located in Start, Programs, SIMBill Registration. All your previously stored information will already be on the form allowing you to add the additional Sim cards and/or programs you require.

Submit the registration in the same manner as the original registration together with the additional payment.

To E-mail registration file.

Click Save to disk. You will be prompted to select a path into which to save the registration file. This should be e mailed to register@simbill.com

Setting up the program

On receipt of the registration file double click on the registration Icon (the one sent to you by e-mail). This will register your program (must be done on all computers).

If you have already registered and are adding additional components you will be sent a new registration file, Double click the file and it will register your additional SIMBill programs and/or sim cards.

Click on the SIMBill Icon

The logon window will appear with the user name "Administrator" Enter the password you sent us with your registration; this will log you on in "Administrator" access level. To re login using "Administrator"

Type "Administrator" (Capital A) followed by your password.

Note: User names and passwords are case sensitive.

You can now setup usernames and passwords see section on setting up new users.

License fees

Information and prices

If you are paying your license fees by credit card or bank transfer it is not required to print. If you are mailing a Cheque or draft please print out a copy of the registration form to enclose with your payment.

Upon receipt of this e-mail and cleared funds* we will e-mail you back a registration file with further instructions.

**Cleared funds*

In the case of a credit Card, on us obtaining an authorization from the merchant. Normally immediate. In the case of a bank transfer. Upon receipt by our bank, free of commission and charges. In the case of a Bank Cheque or Cashiers Check. Upon receipt. In the case of a company or personal Cheque 3 business days after receipt for cheque drawn on Australian, New Zealand and South African Banks. In the case of a cheque drawn on a bank of any other Country. When cleared by our bank.

When you receive the registration file this must be run on each computer you sent us the installation serial number for. The same file is used for all computers and will only register the computer serial numbers and sim card numbers provided to us in the registration form. It is possible to add Computers and sim Cards at any time by rerunning the registration form and adding the new sim card ICCID's and Computer serial numbers. For security reasons the password selected in any subsequent registration forms must be the same as in the Initial Registration.

License Fees

For license fees please consult our web site www.simbill.com

The registration form will automatically calculate the license fees due, these fees subject to change at time of registration.

SIMBill – Starter Pack Includes

1 (One) Sim card reader

CD Rom Containing SIMBill program, SIMBill Messenger, SIMBill SIMBill Reports

Handbook

Licenses for 3 (Three) computers for SIMBill not including SIMBill Messenger licenses, SIMBill Reports licenses or Sim Card licenses.

Additional SIMBill Program Licenses

First 3 (Three) computers included with purchase of starter pack

Additional computers require a once off license fee

SIMBill Messenger

Each computer requires a license

SIMBill SIMBill Reports

Each computer requires a license

Sim Cards

Each Simcard requires an annual license

Additional Sim Card Readers

Available on request

Users

Setting up passwords and user rights

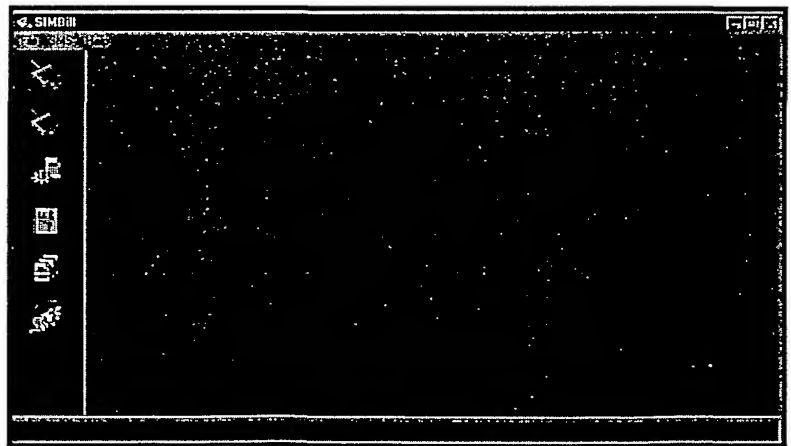
Double click on the SIMBill Icon on your desktop.

The logon window will appear.

Enter Administrator as the user name

Enter your password in the password box (this is the password you sent in on your registration form)

Click "OK"



The screen will now have six icons down the left side

Green picture of sim card reader used for "RENT SIM"

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Red picture of sim card reader used for "**RETURN SIM**"

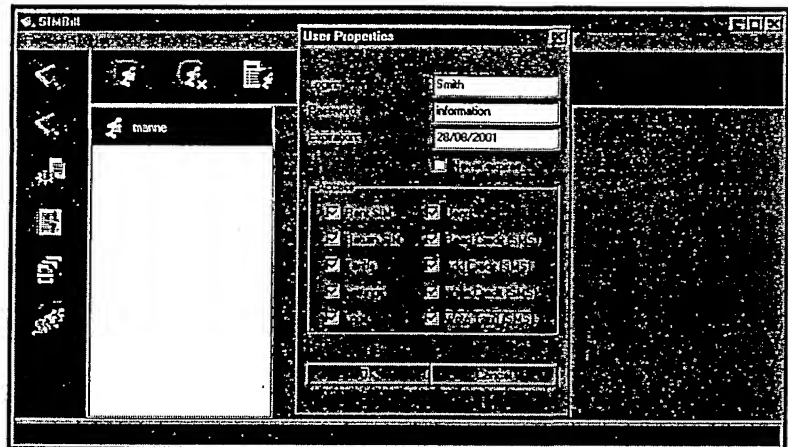
Picture of a gear and a typed page used for "**SETTINGS**"

Picture of a printed page with pen and? Used for "**TARIFFS**"

Picture of multi printed pages used for "**LOGS**"

Picture of faces used for "**USERS**"

FIRST Click on "**USERS**" the bottom Icon of faces.



Three Icons will appear on the top of the window

1st **New User**

2nd **Delete User**

3rd **User Properties.**

A window will appear showing the Login name Password and Expiry date as well as 10 boxes with specific access rights.

Now click on New User

Enter a user name and password and expiry date or you can select never expires then assign access rights by selecting the box next to the rights you want to assign. You can create another password with full administrator rights by selecting all boxes as well as never expires.

Descriptions of User Rights

a) Rent Sim

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This is a term used by us to describe the programming of a sim card with a tariff plan and credit limit. While these are the only compulsory fields more customer and sim card information can also be stored. Each Sim must be programmed initially as un- programmed Sims will not work in the phone.

b) Return Sim

This is a term used by us to read the information off the sim card. This would include credit balance and itemized call data record of calls made, as well as any additional information that was stored at time of "rental".

These are the minimum access rights any user should have.

Rent Sim will enable the user to give out sim cards assign tariffs (if permitted in settings, otherwise a default tariff is assigned) Assign a credit limit and capture all additional customer and sim card information.

Return Sim will enable the user to read information off sim cards and print SIMBill Reports or a customer invoice, showing all charges and customer information.

c) Tariffs

This access right is only given to senior staff that are permitted to create new tariff plans or amend existing tariff plans. More information on this can be found under Creating/amending Tariff plans. For more information on how to create and save a tariff plan see "*Creating tariff plans*"

d) Settings

This access right should only be given to senior staff that are permitted to change company information, tax rate or default tariff plans. For more information see "*Entering default Settings*"

e) Logs

This gives the user access to the log files created on every rental, return and SMS created.

For more information see "Managing and Exporting log files"

f) Add Credit (SMS)

This gives the user access to add credit to a sim card remotely over the air. This can be done with or without SMS Messenger See "*Updating sim card by SMS*"

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g) Write Credit

This is the same as Add credit but overwrites instead of appending credit see *"Updating sim cards by SMS"*.

h) Write Tariff

This allows the user to remotely amend the tariff plan on the sim card, over the air. This can be done without *"SMS Messenger"* More info see *"Updating sim cards by SMS"*. This access requires the user also has access rights to "tariffs".

Once you have assigned the user rights and expiry click on "ok" then repeat until you have assigned all user rights. This must be done on each computer that the user will have access. Users will only see the Icons they have access to. You can change any user rights at any time with an Administrator password, which you must keep secure.

Default settings

Entering the default settings

Click on the "settings"

Enter your company or branch name address telephone number and e-mail address. This can be different for each branch if you have external branches or agents. This will be the information that appears on all invoices logs and SIMBill Reports created by that computer.

On the right of the "settings"

Enter the COM port that the Mobile phone or Cellular modem is connected (If connected if not leave blank)

Enter the SMSC number of the network you are in e.g. Australia +61415011501
South Africa +27829129 or New Zealand +6421600600

NB. If you have not activated SIMBill messenger and connected a Mobile Phone or Cellular modem to send messages you do not have to capture the SMSC or COM port. If you have activated SMS Messenger and installed a cellular phone or Cellular modem you must capture this information.

If required select a **default tariff**, if you select use default tariff this tariff will be used when renting out a sim without a choice of tariff plans. If not selected the user will get a list of available tariffs to allocate to that sim, even if the user does not have "tariff" user rights.

The next box is default "**Deposit**".

If you enter an amount of money in this box it will default to that amount on each rental, but give all users the option to change or remove it. An amount should only be entered in this box if you take a deposit of a usual amount on most rentals. This deposit will be deducted from the invoice total when the invoice is printed. *This deposit is not a credit limit.* A client could have a deposit of \$1000 and a credit limit of only \$100, the other \$900 being security for a handset. In all cases the client will only be able to make calls up to the credit limit.

The next box is the default "**Credit Limit**".

If you have a regular credit limit you give clients it is advisable to enter an amount into this field. As credit limit is the only mandatory field in the rental. If no amount is entered here you can assign a credit limit at time of rental.

The next box is "**Rental Tariff**".

Only enter an amount here if you charge a daily rental for Sim cards and handsets. If you enter an amount here or at time of rental a *daily* charge of this amount excluding GST or VAT will be charged on the customers invoice but not deducted from their credit limit.

The last box in this section is "**GST**".

Here you must enter your GST or VAT rate. Expressed in decimal format i.e. 0.10 for 10%.

Reader Information

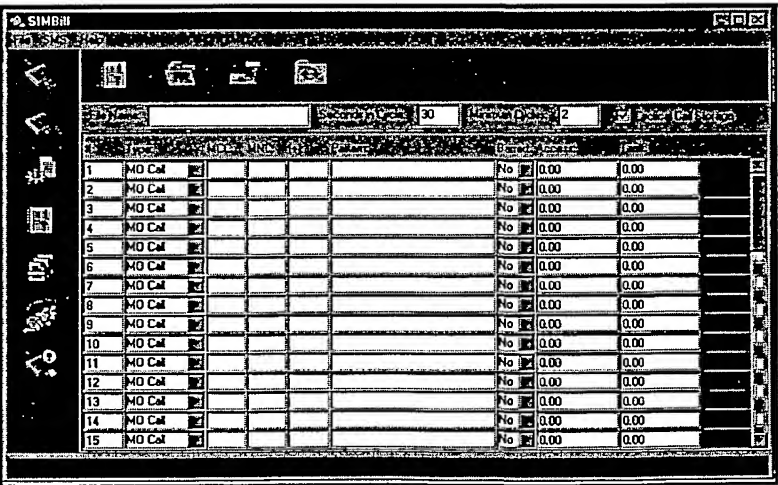
Select the COM port you have connected the sim card reader to. The type library and protocol may depend on which sim card reader you are using. For security reasons SIMBill will only operate on certain Sim card readers supplied by us. These setting are set correct by default to the reader supplied to you and should only need to be changed if you change to a different reader. For more information on setting for different readers visit our website www.simbill.com.

Tariff plans

Creating new tariffs

This is the most critical part of your setup, as it is the program that re-tariffs the calls on the sim card used by your client. An error here can cost you money as you could undercharge or overcharge and have a disgruntled client, so pay particular attention to this section and check your tariff program before using it on clients.

Click on "Tariffs"



Four Icons will appear on the top of the window,

New tariff plan

Open tariff plan**Save tariff plan****Sort**

Supplied with your program there are three sample tariff planes.

SA.bin – for uses in South Africa

AUS.bin – for uses in Australia

NZ.bin – for uses in New Zealand

Click on "Open Tariff Plan"

The above three options will appear select the file you wish to modify. For the purpose of this tutorial we will explain in detail the Aus.bin file.

Line	Call Type	Rate	Unit	Min	Max	MCC	MCN	Rate	Unit
1	MT SMS	0.00	0.00						
2	MO SMS	0.75	0.00						
3	MO SMS	0.99	0.00						
4	MT Call	0.00	0.00						
5	MT Call	0.75	0.00						
6	MT Call	0.00	4.00						
7	MO Call	0.00	0.00						
8	MO Call	0.00	0.00						
9	MO Call	0.00	0.00						
10	MO Call	0.00	0.00						
11	MO Call	0.00	0.00						
12	MO Call	0.45	2.00						
13	MO Call	0.45	1.27						
14	MO Call	0.45	1.75						
15	MO Call	0.45	1.00						
16	MO Call	0.45	1.50						

You will see the above tariff table

Top line next to file name you will see "*Seconds in Cycle*" this is the billing cycle you are billing in example 30 second or 60 seconds (these are your only two options) select 30 or 60

Next to that box is "*Minimum Cycles*" This is the minimum cycles per call charge i.e. you are billing in 30 second cycles with a minimum of one minute per call. In this case enter 2 under minimum cycles. If you have no minimum enter 1.

On the table the tariffs are numbered down the left margin. Next to each number you can enter one tariff.

The first box on the tariff table is "MCC" the next "MCN" A list of MCC's and MCN's are included in this file see "MOBILE COUNTRY, NETWORK and EXIT CODES"

The next box is the call Type; you have a choice of eight call types

"MO Call national", mobile originating call to a number in the same country as your home network

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"MT Call national", mobile terminating call. An incoming call while in the same country as your home network.

"MO Call International" mobile originating call to a country different to that of your home network.

"MT Call International" An incoming call when you are *roaming* that is logged into a network of a foreign county.

And the same four choices apply for SMS. Text messages sent or received.

The next box is the barred box. You have two choices yes or no. If "no" is selected no calls of this type will be allowed.

The next is the pattern.

Here you will enter the different types of calls you are billing for.

The next box is "access fee" only applicable if you charge a one time setup or connection cost.

The last box is the "tariff". This is the amount that will be charged for that type of call per cycle as set up above 30seconds or 60 seconds. If the call is less than the minimum cycles entered above the minimum number of cycles will be charged.

Sample Tariff Plan

Lets enter a few tariffs to get the hang of programming tariffs.

For the propose of this example we will make VODAFONE AUSTRALIA our home network. The MCC (mobile country code) is 505 and the MNC (mobile network code) is ? (all networks within Australia) the Exit code to make an international call out of Australia is 0011.

This information will be dependent of the country you are in. E.g. New Zealand the MCC is 530 and South Africa is 655 the mobile network code can be entered as ? in all cases but if you want to restrict calls to a specific network in the country you can enter the MNC e.g. Vodafone Australia 03 , Vodacom South Africa 01

All this information is available for most GSM networks on this file see "Mobile country, network and exit codes"

Let's analyze the sample Aus.bin tariff plan and discuss how to amend tariffs.

Line 1 in the diagram above. In the call type MT SMS is selected this is Mobile Terminating SMS we have put question marks the MCC MNC and Pattern and have not entered any access fee or tariff.

This will allow free incoming SMS's anywhere in the world. If you wanted to restrict incoming to only Australia we would replace the question mark in the MCC to 505. Although there is no charge or no restrictions in this tariff line we will have to enter it as if the program dose not find an applicable tariff this type

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Line 36. This is the default cost of any local call within New Zealand while roaming in New Zealand.

Line 37. This is a free Emergency call dialed from any country in the world.

Line 38. This is the default call rate for any call made while roaming to any country not programmed.

Important Notes on tariffing.

You can add as many tariffs as you like as long as you keep within the 50 lines of available tariffs.

It's not important in which order you capture the tariffs, as the program will auto sort.

It is important to have wild card tariffs for every type of call and then program the exceptions to avoid barring unperformed calls.

You must always program a default of the six main groups.

- a. MO SMS
- b. MT SMS
- c. MO Call - Local
- d. MT Call - Local
- e. MO Call - International
- f. MT Call - While Roaming

Saving a tariff plan

Once you have created all the tariffs you require you can name and save this. To do this, click on the 3rd Icon from the left on top, picture of a computer and disk. This is the Save Tariff Plan Icon. A window will pop up with a path this is the default path for storing tariffs. You will be asked to enter a name for this Tariff Plan. You can call it any name you choose, Default Tariff, Rental Tariff, Special Tariff for VIP's ext.

If you have more than one computer, doing rental and returns, you must copy this tariff to all these computers. To copy, copy the entire sub directory onto a floppy disk then copy from this disk to the same directory on all the other computers. You must remember that if you make changes to any tariff plan you must copy the changes to all computers.

Once you have named and saved a tariff plan you can go back to Settings to make this a default tariff, if it is the only tariff you use.

RENTING SIMS

PROGRAMING THE SIM CARD

A sim card has to be "rented" before it will operate on the Simbill system. To do this you must first have created a tariff plan and set your default settings.

Place the sim card in the sim card reader and click on the green sim card reader icon (top left) If you have not entered a default tariff plan by checking the "use default tariff square" a list of available tariffs will appear for you to select one. If you have selected to use a default tariff or once you have selected a tariff the following customer Information window will appear.

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Customer Information	
ICC ID	98112233445566778899
IMEI	0000000000000000
MSISDN	
Agreement#	996552060
Name	
Credit Card#	
Expiration Date	07/2001
Address	
Telephone	
Deposit	33.00
Deposit Type	Credit Card
Credit	33.00
Rental Tariff	4.00
Rental Date	31/07/2001
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

The first line Icc id will be automatically read off the sim card.

The second line requires you to fill in the imei (serial number) of the cell phone you are going to use with this sim. This number is printed on the back of the phone under the battery or you can type “*#06# (star, hash, 06 hash) on the key pad of your cell phone and the serial number will be displayed on the screen of the phone. This will **LOCK THE SIM CARD TO THIS PHONE**. It will not be possible to use this sim on any other phone other than the number you entered here. Please make sure you do not make a mistake and **test the sim in the phone** when complete.

The msisdn is the mobile phone number attached to this sim card. If you have previously rented out this sim card the number will default to the last number used on this sim.

Simbill generates a unique agreement number for each transaction but you can overrigh this to you own agreement or reference number.

The Customer name and address are optional information fields for invoice printing and reports. The credit card info is also optional.

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The Deposit field is used only if the customer makes a cash deposit. This amount will credit on the customers invoice as a payment.

The credit limit is the amount of credit you are allowing for calls only on this rental. Daily charges such as phone rental are not deducted from the credit limit nor are any GST or Vat, so make provision for these charges when assigning a credit limit.

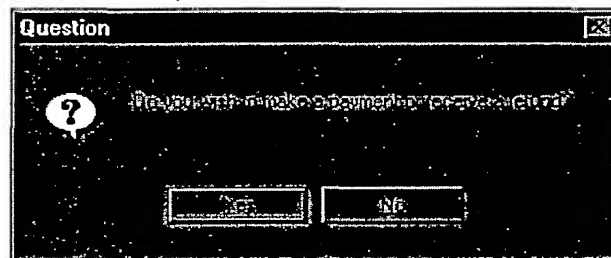
Rental tariff will charge a daily charge of this amount on the invoice excluding any taxes. This is not deducted off the credit limit. And will only be on full days, a phone rented and returned on the same date will not incur a rental charge.

Once you have completed the customer information click OK.

This information will be stored on the sim card. You will see a green line showing the progress until the card is written when the words "Sim Rented" will appear on the left of the bottom line. You can now remove the Sim card and place it in the mobile phone and test before supplying to customer.

RETURNING A SIM

Place the Sim card into the sim card reader and click on the red sim card reader icon. Second from the top on the left. The program will read the sim card and display a detailed invoice on the screen with a pop up message "Do you wish to make a payment or refund now?" You can skip this by clicking "no" and come back to this later by clicking the red return icon again.

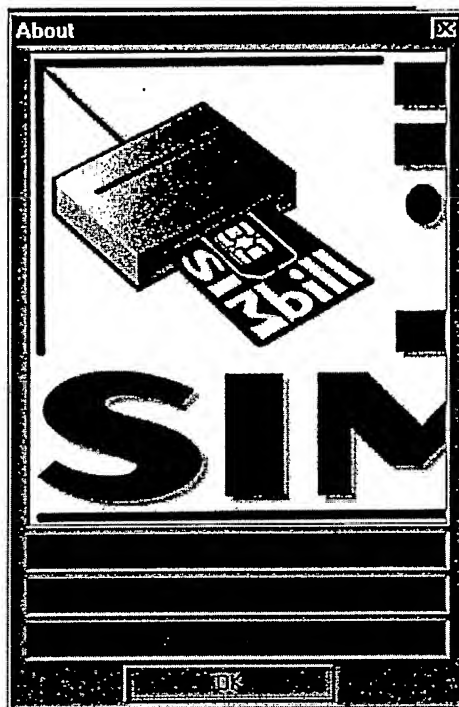


If the customer is making a payment on return click yes and enter the amount and payment type then OK. This information is used in the reports program for cash and account control. You can change any of the customer's information such as address name telephone number etc. By clicking on the pad and pen icon on the top left

The serial number is displayed on the centerline.

Note this number for registration.

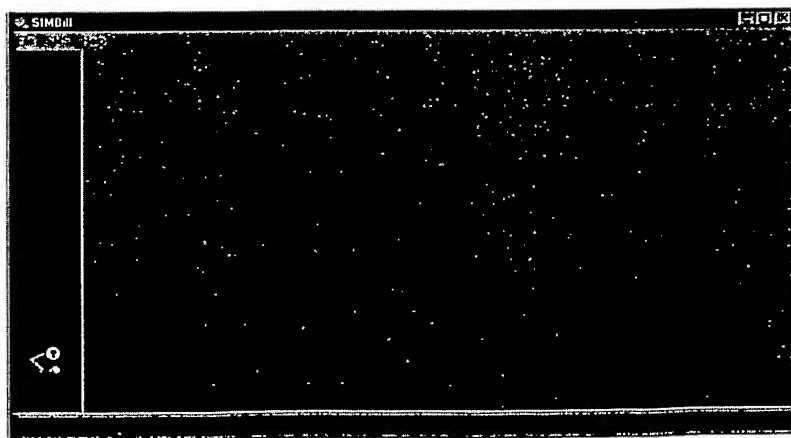
This serial number will be different on each computer. Even if installed from the same C.D.



By proceeding with this registration you are deemed to have read, and agreed to, the terms and conditions of the license agreement, and acknowledged SIMBill's patents and Copyright.

On the bottom of this screen you will see a serial number **WRITE THIS DOWN** If you are installing SIMBill on several computers each will have a unique serial number *Write down all the serial numbers as* you will need them to register.

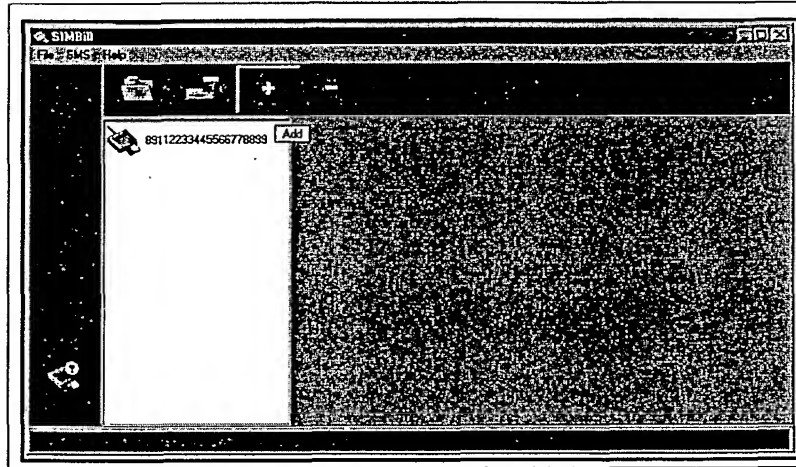
Close the about window by clicking on the top right X then click on **File** and **exit**.



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You now have a screen with only one icon (Simcard reader) if you do not have the ICCID numbers of your sim cards (required to complete the registration form) you can obtain the ICCID numbers of each Simcard in the following way. (You do not have to be logged in or registered to perform this function).

- a. Insert Simcard into card reader and click the icon
- b. Click on the green Add icon, This will automatically read the ICCID of the sim card and display the ICCID, for additional simcards just place new Simcard into reader and click Plus. A list of all your ICCID's will be displayed
- c. To remove any ICCID's you do not want to be listed select the ICCID and click the Red remove icon
- d. Once you have listed all the ICCID's save then to a file by clicking the save icon next to the Add icon, This file can be attached to your registration form by just typing see attached file in your list of ICCID's on the registration form.



To obtain the "SIMBill Messenger" product serial number

This serial number is the same as your SIMBill serial number On the main SIMBill program menu Click help , About and the serial number will be displayed.

To obtain the "SIMBill Reports" product serial number

If installed

Click on the SIMBill Reports Icon located in "Start , Programs, SIMBill reports. You will be asked for a registration key (You do not have the Key at this time). Above this is the serial number you will need to obtain the registration key write this down. You need to repeat this process on every computer you wish to operate SIMBill SIMBill Reports on, as the serial number will be different on each computer.

Reboot your computer to initialize the sim reader at any time prior to first use of the reader.

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The customer information will appear and allow you to edit certain fields only. Deposit and Credit limit cannot be edited.

To print an invoice click on the print icon, second from left on top. This will print an invoice. You can reprint any time before next rental by returning the sim and clicking on the print icon. After you have done a new rental on that sim this information cannot be retrieved from the sim card. You can retrieve all the information both the rental, return and call and payment data through the reports program at any time. All information is automatically saved and stored on the computer that did the rental or return. Please ensure that all return logs from branch locations are copied or imported to a central location for consolidated reports of all data.

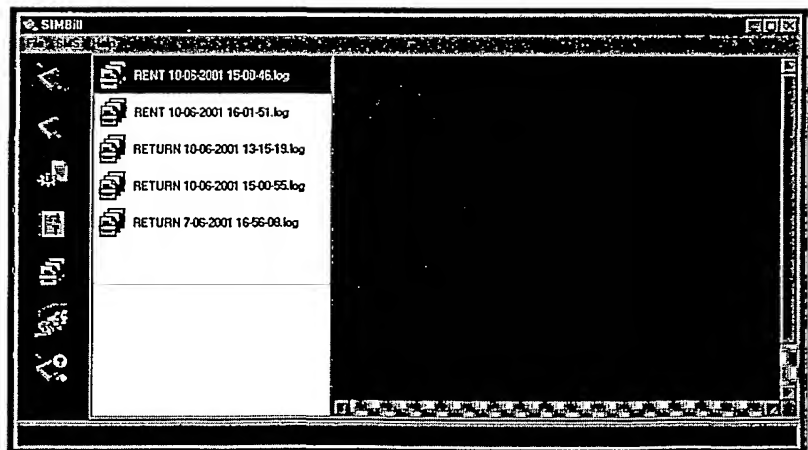
Logs

Managing log files

Each time you do a RENTAL or RETURN or update a sim over the air by SMS a log is created of this transaction.

These logs are stored in the Logs directory C:\program files\SIMBill\log but can be accessed by selecting the Logs Icon on the mail screen of SIMBILL. To do this you must have user access to LOGS.

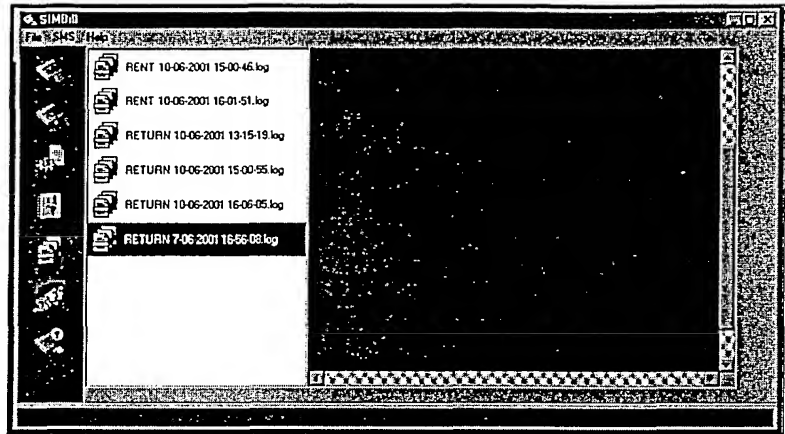
Logs are named by the date and time they were created as well as a prefix of RENT, RETURN or SMS to describe the transaction. Below is an example of a RENT log.



As you can see this gives all the information of that rental including time, date and user as well as a unique reference number or rental agreement number. Similarly a Return log (Pictured below) will have all the same information but

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include the return date and time, location and user that did the return as well as all the call information including ALL Itemized billing, Also included in the return log will be any payment made at time of return and methods of such payment. Each call will be listed separately giving number dialed, duration and cost of each call, as well as a summary and totals.



Below is an example of an SMS log; An SMS log is created each time a credit is added, Written or tariff change over the air.



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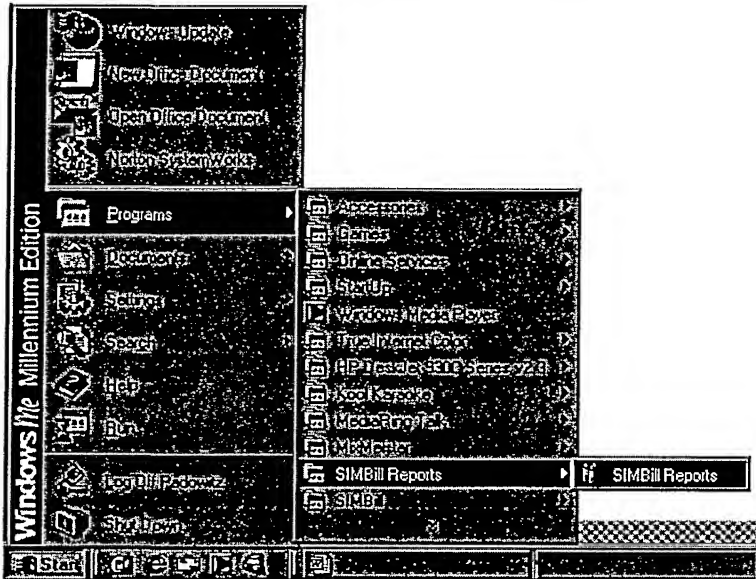
These logs can be imported to any accounting program, database or spreadsheet from where you can create your own history.

We offer an integrated database and report writer **SIMBill Reports** that is included on your setup CD. If installed **SIMBill Reports** will automatically import all the Log files and give you a host of **SIMBill Reports** and keep history of all clients and calls. This will give you the ability to produce consolidated invoices, GST or VAT **SIMBill Reports**, reprint invoices, give a report of cost versus selling with percentage margins, reports on SMS updates, cash received by branch, and many more. For more information on **SIMBill Reports**, see "Registering **SIMBill Reports**".

SIMBILL Repots

The Report Menu

To open SIMBill Reports click Start Programs SIMBill Reports



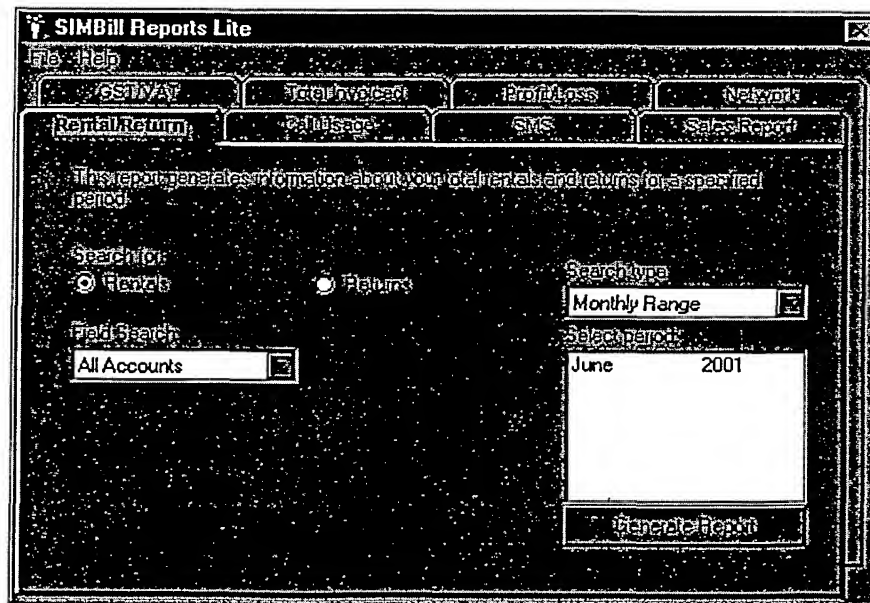
SIMBill Reports Lite User Manual

Introduction

SIMBill Reports Lite is a comprehensive report writer for use with SIMBill and its associated products.

Utilizing your existing SIMBill data, this program creates useful reports for auditing and bookkeeping purposes, and incorporates advanced transaction searching capabilities to detect any potentially fraudulent usage.

To ensure you have access to the most up to date information, all of your SIMBill log files are automatically imported when you run the report writer.



There are eight reports that can be generated from your SIMBill data, all of which can be selected by clicking the appropriate tab in the main screen.

Date Ranges

While each report has its own individual options and features, all require a time period from which to obtain their results.

When selecting a time period for a report, you have the following two options:

- **Monthly Range** – allows you to select a range of whole months (i.e. July 2000 to June 2001). Only those months found in the SIMBill data will be displayed for convenience.
- **Specific Range** – allows selection of a specific date range (i.e. 05/06/2000 to 13/07/2001)

These two modes have been included to provide both convenience and flexibility. The Monthly Range allows reports to be generated over whole, monthly ranges.

The specific range is designed to allow more detailed, date specific ranges for advanced auditing purposes.

Report Sorting

Once generated, all reports can be sorted by various fields, including Date, Agent, Location, MSISDN and ICCID, depending on the specific report.

ICCID	MSISDN	ICC	REGISTRATION DATE	REGISTRATION DATE	CALLS	CALL DURATION	REPORT DURATION	COST	TOTAL	AGENT
86112233445566778899	6421706491	86112233445566778899	20/06/2001	21/06/2001	0	00	000	0.31	3.37	Agent
86112233445566778899	6421706491	86112233445566778899	20/06/2001	21/06/2001	0	00	1.99	0.20	2.19	Agent

To sort by a specific column, click on the header of that column (i.e. Agent), and the report will automatically re-sort the information.

Printing

- All eight reports can be printed by clicking the Print button, providing hard copies for auditing and bookkeeping purposes.

Report Exporting

The reports are exportable to a variety of formats for use with other database or billing systems. To export a report, simply click on the **Export Report** button and select a format.

Reports Available

The following is a listing of all available reports and the features of each:

GST/VAT Report

Generates a report of total income and any tax charged for a specified period. This report is often necessary to ascertain total tax liabilities for the income generated.

- **Summary Report** – provides a basic breakdown of income into revenue and tax charged.
- **Detailed Report** – provides the same details as the summary, along with a breakdown listing of each individual income transaction for the period.

SIMbill Reports Lite

Reports Settings Help About

Summary Detailed Profile Network

The report generates information about your business and its performance over a specified period.

☒ **Summary Report**
 Generates a summary of your business and its performance over a specified period.

☐ **Detailed Report**
 Generates a detailed report of your business and its performance over a specified period, including a breakdown of each individual income transaction.

Select period

August	2001
July	2001
June	2001
May	2001
April	2001
March	2001

Generate Report

Total Invoiced Report

Generates a report of total income divided into individual categories, as well as any tax charged for a specified period. This report determines your actual sources of income, reporting both rental and call charges.

- **Summary Report** - provides a basic breakdown of income into call charges, rental charges and tax charged.
- **Detailed Report** - provides the same details as the summary, along with a breakdown listing of each individual income transaction for the period.

SIMBill Reports Lite

File Edit View Help

Summary Report Detailed Report SMS Sales Report

This report generates information about income received during a specified period.

☒ **Summary Report**
Provides a summary report of total income received during a specified period.

☐ **Detailed Report**
Provides a detailed report of all income received by the user, including call charges, rental charges, and taxes.

Select Report:

August	2001
July	2001
June	2001
May	2001
April	2001
March	2001

Generate Report

SMS Report

Generates a report of all over-the-air SMS Updates sent in a specified period. These updates allow various changes to be made to the SIM card mid-rental, and therefore may affect the final credit limit.

There are several options for transaction searching. These are:

- All transactions – report all SMS transactions
- Read Credit – report all messages that queried a SIM's credit limit
- Write Credit – report all messages that wrote a new credit limit to a SIM
- Add Credit – report all messages that added credit to a SIM
- Write Tariff – report all messages that wrote a tariff update to a SIM

SIMBill Reports Lite

File Edit Format Tools Help

General Advanced **SMS** Edge Report

This report generates information about all SMS updates for a specified period.

Transaction

All Transactions	August 2001
Read Credit	July 2001
Write Credit	June 2001
Add Credit	May 2001
Write Tariff	April 2001
	March 2001

Generate Report

Rental/Return Report

This report allows you to retrieve details about specific rentals or returns for a certain period.

There are two main search options for this report, being:

- **Rentals** – generates a Rental Report. Details include individual rental dates, credit limits and daily rental tariff
- **Returns** – generates a Return Report. Details include individual rental and return dates, total rental charges, total call charges, total GST/VAT charged (if applicable)

The report may be generated from the following fields:

- **All Accounts** – report all transactions
- **MSISDN** – report transactions with selected MSISDN(s)
- **ICCID** – report transactions with selected ICCID(s)
- **Agent** – report transactions by selected Agent(s)

Invoice Re-Printing

Invoices may be re-printed for accounts that have a matching Return Log, and is therefore not possible for Rental Logs.

Individual or group invoices can be re-printed by highlighting the required accounts and clicking **Generate Invoice**. This feature allows a group of invoices for a specified period to be sent to larger account holders for their own internal bookkeeping.

Return Report										
MSISDN	ICCID	Rental Date	Return Date	Cost	Call Charges	Rental Charges	GST	Total	Account	Agent
+6421706491	98112233445566778899	21/08/2001	21/08/2001	0	0.00	0.00	0.00	0.00	Administ	
+6421706491	98112233445566778899	21/07/2001	21/07/2001	0	0.00	0.00	0.00	0.00	Administ	
+6421706491	98112233445566778899	21/06/2001	21/06/2001	0	0.00	0.00	0.00	0.00	Administ	
+6421706491	98112233445566778899	20/06/2001	21/06/2001	0	0.00	1.99	0.20	2.19	Administ	
+6421706491	98112233445566778899	21/05/2001	21/05/2001	0	0.00	0.00	0.00	0.00	Administ	
+6421706491	98112233445566778899	21/04/2001	21/04/2001	0	0.00	0.00	0.00	0.00	Administ	
+6421706491	98112233445566778899	21/03/2001	21/03/2001	0	0.00	0.00	0.00	0.00	Administ	

Sales Report

Generates a report about total income received at time of return. Details of cash and credit card payments are available, broken down into individual locations and agents for auditing purposes.

Location – generate report for selected Location(s)

Agent – use Agent(s) at selected Location(s)

SIMBill Reports Lite

File Edit Tools Help

General Locations Agents Reports Tools Help

This report generates information about total income received at time of return, broken down into cash and credit card payments for individual locations

Select Location: Gold Coast

Select Agent: Administrator

Search type: Monthly Range

August	2001
July	2001
June	2001
May	2001
April	2001
March	2001

Generate Report

Network Calls Report

Generates a report of total network charges for a range of MSISDNs over a specified period, as well as the numbers dialled, call durations and network references.

This is where the total cost of calls charged to you by your network can be ascertained.



This is the Import Calls button

Firstly a Network Call Log file must be specified. Click on the Import Calls Button, and select a source file. Network logs may be stored in any order or location, however they need to be imported before any Network reports are generated.

When generating the Network Calls Report, the following must be specified:

- **MSISDN** – select a single number or an entire range from which to extract costing information and call details

Date Range	
April	2001
March	2001
January	2001
December	2000
November	2000
October	2000
April	2000

All Network Call Logs must be in the following comma-delimited format:

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MSISDN
Number Dialed
Date (YYYY-MM-DD or YYYY/MM/DD)
Time (24hr)
Duration (seconds)
Cost (i.e. 2.45, NOT \$2.45)
Reference

Please note that the format of your Network file must be the same as this one:

6421378575,0011642170070,2001-04-20,22:22:19,173.0,2.35,53011100423118
6421378575,0011642170070,2001-03-15,20:26:09,61.0,0.89,530011100423118
6421378575,0011642170070,2001-03-24,21:26:09,128.0,5.64,530011100423118

There may or may not be a plus (+) in front of the MSISDN.

i.e. +6421378575 or 6421378575 are both acceptable.

Profit/Loss Report

Generates a report of total costs and income for a selected range of MSISDNs by comparing Network call charges to Return Logs.

Select the Network Log file to use by clicking the import button and selecting the appropriate file. (See Network Calls Report for more information on Network Call Logs and their format.)

This report allows you to search by:

MSISDN – select a single number or an entire range from which to extract costing information, income levels and total profit.

SIMBill Reports Lite

File Edit View Help

General Form Change SMS Sales Report

This report generates information about total costs and income by comparing Network call charges to Return Logs.

Network file
Please select a network log file.

Select MSISDN

+61410406012
+6421708491

Select period

August	2001
July	2001
June	2001
May	2001
April	2001
March	2001

Generate Report

Call Usage Report

This comprehensive report provides advanced call tracing facilities for accounting and security purposes.

The reports are generated using the call data generated at time of return from each account in SIMBill.

There are four available searches:

- All calls **TO** this MSISDN – this report show all calls made to this MSISDN from all other accounts
- All calls **FROM** this MSISDN – this report shows all calls made from this account
- Anyone who **CALLED** this number – this report shows all accounts that dialled this number
- Anyone who **RECEIVED** this number – this report shows all accounts that received any calls from this number

SIMBill Reports Lite

File Edit Format Database Network

Return Call Usage SMS Security

This report shows advanced call tracing facilities for accounting and security purposes.

Select search type:

- All calls FROM this MSISDN
- All calls TO this MSISDN
- Anyone who CALLED this number
- Anyone who RECEIVED this number

Select month:

- August 2001
- July 2001
- June 2001
- May 2001
- April 2001
- March 2001

Generate Report

SMS

Updating files by SMS over the air

You can update sim cards over the air by SMS with the SIMBill program.

To do this you must have SMS on your user level. SIMBill messenger and a wasp modem or Nokia data suite and phone installed.

All over the air updates require an SMS to be sent. For more information on sending SMS's please see section "SMS Messenger".

Click on the SMS menu option in the SIMBill window. A list of two options will pop down.

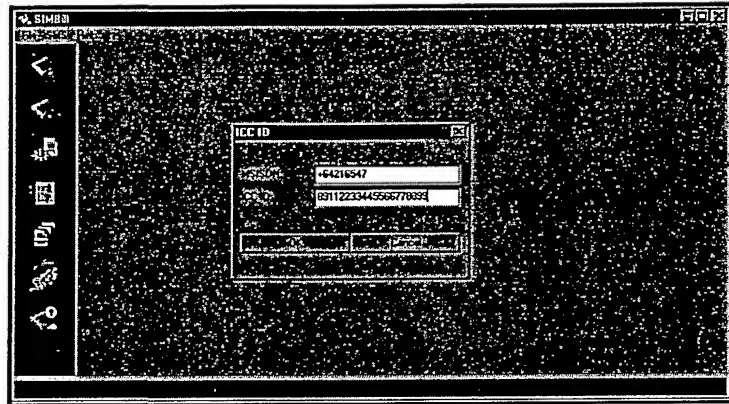
ADD CREDIT this allows you to append credit to the existing credit available.

WRITE CREDIT this will overwrite the credit balance to this amount instantly.

You could also use this to overwrite the credit to 0.00,
barring any outgoing calls

First try "ADD CREDIT"

Click SMS and select ADD Credit the following screen will appear



Enter the mobile number you are updating in the international format + Country code followed by number e.g. 0414141414 would be entered as +61414141414 in Australia.

You will also be asked for the ICCID number of the sim (we work on sim numbers) . If you do not know the ICCID number just look at any log file of that mobile number.

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Enter (or paste) the ICCID number and click on "OK"

The image shows a small, dark-themed dialog box with the title 'Amount'. Inside the dialog, there is a text input field containing the value '10.00'. Below the input field, there are two buttons: 'OK' on the left and 'Cancel' on the right. The dialog box has a standard Windows-style border with a close button (X) in the top right corner.

You will then be asked for an amount. Enter the amount you wish to add, and click on "OK". A Message has been created that will, automatically be transmitted with out any further action on your part , and a log file created, provided you have licensed SIMBill messenger and have connected a cellular modem of phone to your computer see section *SIMBill Messenger*.

If you have not resisted SIMBill Messenger and attached a cellular phone or Wasp modem to your computer the message will not automatically be sent

If the message is sent more than once it will only be credited once, if the message is sent to the incorrect sim or phone it will not be credited.

If we click on **WRITE CREDIT** it is the same as **ADD CREDIT** except the amount requested will be overwritten an the new credit balance and not added to the existing balance. With this you can remove credit from the phone by sending an amount of 1.00.

Sending SMS's

Updating Sim card over the air

SIMBill Messenger is only method of sending SMS's to update credit balances. If you are going to be using this feature, we suggest purchasing SIMBill Messenger. Once installed all SMS messages will be automatically sent with no action on your part, just create the SMS as described in 5 above, the rest is automated.

SMS Messenger

Installing SMS Messenger

SMS Messenger is automatically installed when you install SIMBill to activate it all you need to do is specify license SMS Messenger on your registration form.

You will need a Wasp cellular modem Available from you SIMBill dealer.

When you receive the registration file that is copied onto your computer this will activate SIMBill Messenger on your system with no additional installation.

Included with SIMBill messenger is SMS Buddy. This enables you to send any SMS to any mobile phone from your computer. You do not need an Internet connection for this.

Network Codes

Network & Country codes

Note: Exit codes are the prefixes you will dial from a country to make an international call e.g. Australia 0011 South Africa 09.

Country	Operator name	Network code	Tel to customer service	Frequency	Exit Code
Albania	AMC	276 01		900	
Algeria	* AMN	603 01		900	00
Amer.Samoa	* Blue Sky	544 11		1900	1
Andorra	STA-Mobiland	213 03	Int + 376 824 115	900	19
Antigua	* Apua PCS			1900	00
Armenia	Armentel	283 01		900	00
Australia	Optus	505 02	Int + 61 2 9342 6000	900	0011
	Telecom/Telstra	505 01	Int + 61 18 01 8287	900/1800	0011
	Vodafone	505 03	Int + 61 2 9415 7236	900	0011
	* One.Tel	505 08		1800	0011
Austria	Mobilkom Austria	232 01	Int + 43 664 1661	900/1800	00
	max.mobil.	232 03	Int + 43 676 2000	900/1800 Vienna	900
	ConnETC Austria	232 05	Int + 43 1 58187300	1800	00
	* Telering			1800	00
Azerbaijan	Azercell	400 01	Int + 994 12 98 28 23	900	810
	JV Bakcell	400 02		900	810
Bahrain	Batelco	426 01	Int + 973 885557	900	00
Bangladesh	Grameen Phone Ltd	470 01		900	00
	* TM International	470 02	Int + 88 02 9885467	900	00
	Sheba Telecom			900	00
Belarus	* Veicom	257 01		900	810
Belgium	Proximus	206 01	Int + 32 2205 4912		00
	Mobistar	206 10	Int + 32 95 95 95 00		00
	KPN Orange	206 20			00
Benin	* Libercom	616 01		900	00
	* Spacetel			900	00
	* Telecel			900	00
Bolivia	* Nuevatel			1900	00
Bosnia	PTT Bosnia	218 19			99
	* Eronet			900	99
	* Mobilna	218 05		900	99
Botswana	Mascom Wireless	652 01		900	00
	* Vista Cellular	652 02		900	00
Brunei	DSTCom	528 11		900	00
Bulgaria	MobilTel AD	284 01	Int + 359 88 500031	900	00
Burkina Faso	* OnaTel	613 01		900	00
Burundi	* Safaris			900	00
	* Spacetel			900	00
	* Telecel			900	00
Cambodia	CamGSM	456 01		900	00
	Cambodia Samart	456 02		900	00
	Cambodia Shinawatra			1800	00
Cameroon	PTT Cameroon Cellnet	624 01		900	00
	* Mobilis	624 02		900	00

Cape Verde	Cabo Verde Telecom	625 01				0
Canada	Microcell	302 37				011
Chile	Entel Telefonía					00
China	* China Telecom	460 00				00
	China Unicom	460 01				00
Congo	African Telecoms					0
	Congolaise Wireless					0
Croatia	HR Cronet	219 01	Int + 385 14550772			99
	Vipnet	219 10				99
Cyprus	CYTA	280 01	Int + 357 2 310588			00
Czech Rep.	<u>Eurotel Praha</u>	230 02	Int + 420 2 6701 6701			00
	<u>Radio Mobil</u>	230 01	Int + 420 603 603 603			00
	* <u>OSKAR</u>	230 03				00
Denmark	<u>Sonofon</u>	238 02	Int + 45 8029 2929	900		00
	<u>Tele Danmark Mobil</u>	238 01	Int + 45 8020 2020	900		00
	<u>Mobilix</u>	238 30	Int + 45 8040 4080	1800		00
	<u>Telia</u>	238 20	Int + 45 8010 1010	1800		00
Egypt	MobiNil	602 01		900		00
	Click GSM	602 02		900		00
Estonia	EMT	248 01	Int + 372 6 397130			800
	Radiolinja Eesti	248 02	Int + 372 6 399966			800
	Q GSM	248 03				800
Ethiopia	ETA	636 01				00
Faroe Isl.	Faroe Telecom					009
Fiji	Vodafone	542 01	Int + 679 312000			05
Finland	<u>Radiolinja</u>	244 05	Int + 358 800 95050	900		990
	<u>Sonera</u>	244 91	Int + 358 800 17000			990
	<u>Alands Mobiltelefon</u>	244 05				990
	<u>Telia</u>	244 03	Int + 358 800 41 1041			990
	<u>Finnet</u>	244 09	Int + 358 800 94000			990
	<u>Lannen Puhelin</u>	244 09				990
	<u>Helsingin Puhelin</u>	244 09	Int + 358 9 500 100			990
France	<u>France Telecom</u>	208 01	Int + 33 1 44 62 14 81	900		00
	<u>SFR</u>	208 10	Int + 33 1 44 16 20 16	900		00
	<u>Bouygues Telekom</u>	208 20	Int + 33 1 46 10 86 14	1800		00
Fr. Polynesia	Tikiphone	547 20				00
Fr. W. Indies	Ameris	340 01	Int + 590 93 27 47			00
Georgia	Superphone					810
	Geocell	282 01				810
	Magticom	282 02				810
Germany	<u>DI, DeTeMobil</u>	262 01	Int + 49 511 961 0171	900		00
	<u>D2, Mannesmann</u>	262 02	Int + 49 172 1212	900		00
	<u>E-Plus Mobilfunk</u>	262 03		1800		00
	<u>Viag Interkom</u>	262 07	Int + 49 179 55 222	900/1800		00
Ghana	Franci Walker Ltd					00
	ScanCom	620 01				00
Gibraltar	GibTel	266 01	Int + 350 58 102 000	900		00
Greece	Panafon	202 05	Int + 30 94 400 122	900		00
	STET	202 10	Int + 30 93 333 333	900		00
	Cosmote	202 01	Int + 30 1 680 8950	1800		00
Greenland	* Tele Greenland	290 01		900		009
Guam	* Guam Wireless			1900		001
Guinea	* Telecel	611		900		00
	* Mobilis	611 01		900		00
	Lagui	611 02		900		00
Hong Kong	<u>HK Hutchison</u>	454 04	900/1800			001
	<u>SmarTone</u>	454 06	Int + 852 2880 2688	900/1800		001
	<u>Telecom CSL</u>	454 00	Int + 852 2888 1010	900/1800		001
	<u>New World PCS</u>	454 10		1800		001
	<u>Sunday</u>	454 16		1800		001
	<u>Peoples Telephone</u>	454 12				001
Hungary	<u>Pannon GSM</u>	216 01	Int + 36 20 9 654 062	900		00
	<u>Westel 900</u>	216 30	Int + 36 30 9 303 100	900		00
	* <u>Primatel/Vodafone</u>	216 70		900/1800		00
Iceland	<u>Post & Simi</u>	274 01	Int + 354 800 6330	900/1800		00
	<u>TAL</u>	274 02		900		00

India	Airtel	404 10	Int + 91 10 012345	900	00
	Essar	404 11	Int + 91 11 098110	900	00
	Maxtouch	404 20		900	00
	BPL Mumbai	404 21		900	00
	Command	404 30		900	00
	Spice Cell	404 31		900	00
	* Spice - Karnataka	404 44		900	00
	Skycell	404 40	Int + 91 44 8222939	900	00
	RPG MAA	404 41		900	00
	Spice Punjab	404 14		900	00
	BPL Maharashtra	404 27		900	00
	Koshika			900	00
	Bharti Telenet			900	00
	Cellular Comms			900	00
	TATA	404 07	Int + 91-040-21199	900	00
	Escotel Haryana	404 12		900	00
	* Escotel Kerala	404 19		900	00
	* Escotel UP	404 56		900	00
	JTM Andhra Pradesh	404 49		900	00
	* JTM Karnataka	404 45		900	00
	Evergrowth Telecom			900	00
	Aircel Digilink	404 15		900	00
	* Hexacom India	404 70		900	00
	Reliance Telecom			900	00
	* Fascel Limited	404 05		900	00
	* AT&T Gujarat	404 24		900	00
	* AT&T Goa	404 22		900	00
	* BPL Kerala	404 46		900	00
	* BPL Tamil Nadu	404 43		900	00
	* Aircell	404 42		900	00
Indonesia	TELKOMSEL	510 10	Int + 62 21 8282811	900	001
	PT Satelit Palapa	510 01	Int + 62 21 533 1881	900	001
	Excelcom	510 11	Int + 62 21 5759818	900	001
	PT Indosat				001
Iraq	Iraq Telecom	418 ??			00
Iran	T.C.I.	432 11	Int + 98 2 18706341	900	00
	Kish Free Zone			900	00
Ireland	Eircell	272 01	Int + 353 42 38888	900	00
	Digifone	272 02	Int + 353 61 203 501	900	00
	Meteor	272 03		900	00
Israel	Partner Communications	425 01		900	00
Italy	Omnitel	222 10	Int + 39 349 2000 190	900/1800	00
	Telecom Italia Mobile	222 01	Int + 39 339 9119	900/1800	00
	* Wind	222 88	Int + 39 320 5000 158	900/1800	00
	* Blu	222 98		1800	00
Ivory Coast	Ivoiris	612 03	Int + 225 23 90 00		00
	Comstar	612 01	Int + 225 21 51 51		00
	Telecel	612 05	Int + 225 32 32 32		00
Jordan	JMTS	416 01		900	00
	* Mobilecom			900	00
-Kazakhstan	* K-Cel	401 02		900	810
	* K-Mobile	401 01		900	810
Kenya	* Kencell	639 03		900	000
	* Safaricom	639 02		900	000
Kuwait	MTCNet	419 02	Int + 965 484 2000	900/1800	00
	* Wataniya Telecom			900/1800	00
Kyrgyz Rep	Bitel Ltd	437 01		900	810
La Reunion	SRR	647 10		900	19
Laos	Lao Shinawatra	457 01		900	00
Latvia	LMT	247 01	Int + 371 256 2191		00
	BALTCOM GSM	247 02			00
Lebanon	Libancell	415 03			00
	Cellis	415 01	Int + 961 3 391 111		00
Lesotho	* Vodacom	651 01	Int + 26 621 2240		00
Liechtenstein	Natel-D	228 01			00
Lithuania	Omnitel	246 01		900	810
	Bite GSM	246 02	Int + 370 2 232323	900	810
Luxembourg	P&T LUXGSM	270 01	Int + 352 4088 7088	900	00
	* Tango	270 77			00
Lybia	Orbit				00
	El Madar				00
Macao	CTM	455 01	Int + 853 8913912	900	00
Macedonia	* MobiMak	294 01	Int + 389 70 6622		99

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Madagascar	<u>Sacel</u>	646 03				16
	Madacom	646 01	Int + 261 2022 66055			16
	SMM	646 02				16
Malawi	TNL	650 01				101
Malaysia	<u>Celcom</u>	502 19		900		007
	<u>Maxis</u>	502 12		900		007
	<u>TM Touch</u>	502 13		1800		007
	<u>Time</u>	502 17		1800		007
	<u>Digi Telecom</u>	502 16		1800		007
Malta	Telecell	278 01		900		00
Marocco	O.N.P.T.	604 01	Int + 212 220 2828	900		00
Mauritius	Cellplus	617 01	Int + 230 4335100	900		00
Moldova	Voxtel					810
Monaco	Itineris	208 01	Int + 33 1 44 62 14 81	900		19
	SFR	208 10	Int + 33 1 44 16 20 16	900		19
	Office des Telephones					19
Mongolia	MobiCom					99
Montenegro	Pro Monte	220 02				00
Mozambique	Telecom de Mocambique	634 01				00
	T.D.M GSM1800					00
Namibia	MTC	649 01	Int + 264 81 121212			00
Netherlands	<u>PTT Netherlands</u>	204 08	Int + 31 6 0106	900		00
	<u>Libertel</u>	204 04	Int + 31 6 54 500100	900		00
	<u>Telfort Holding NV</u>	204 12				00
	Ben	204 16				00
	Dutchtone	204 20				00
New Caledonia	Mobilis	546 01				00
New Zealand	<u>Vodaphone NZ</u>	530 01		900		00
Nigeria	* <u>United Net</u>			1800		009
	* <u>Africell</u>			1800		009
	* <u>Celia</u>	621 03		900/1800		009
	* <u>Comm Invest</u>			900		009
	* <u>Integrated Mobile</u>			900/1800		009
	* <u>Nigerian Mobile</u>			900		009
	* <u>Reliance</u>			1800		009
Norway	<u>NetCom</u>	242 02	Int + 47 92 00 01 68	900/1800		00
	<u>TeleNor Mobil</u>	242 01	Int + 47 22 78 15 00	900/1800		00
Oman	<u>General Telecom</u>	422 02		900		00
Palestina	* <u>Jawal</u>	425 05		900		00
Pakistan	<u>Mobilink</u>	410 01	Int + 92 51 273971-7	900		00
	* <u>Pak Telecom</u>			900		00
Papua	<u>Cellnet</u>	310 01		900		05
Philippines	<u>Globe Telecom</u>	515 02	Int + 63 2 813 7720	900		00
	<u>Islacom</u>	515 01	Int + 632 1457000	900		00
	* <u>Smart</u>	515 03	Int + 63 2 888 1111	900/1800		00
Poland	<u>Plus GSM</u>	260 01	Int + 48 22 607 16 01	900/1800		00
	<u>ERA GSM</u>	260 02		900/1800		00
	<u>IDEA Centertel</u>	260 03		900/1800		00
Portugal	<u>Telecel</u>	268 01	Int + 351 931 1212	900/1800		00
	<u>TMN</u>	268 06	Int + 351 1 791 4474	900/1800		00
	<u>Optimus</u>	268 03		900/1800		00
Qatar	<u>Q-Net</u>	427 01	Int +974-325333/400620	900		0
Romania	<u>MobiFon</u>	226 01	Int + 4011302222	900		00
	<u>MobilRom</u>	226 10	Int + 4011203333	900		00
	* <u>Cosmorom</u>			900/1800		00
Russia	<u>Mobile Tele... Moscow</u>	250 01	Int + 7 095 915-7734	900		810
	<u>United Telecom Moscow</u>			900		810
	<u>NW GSM, St. Petersburg</u>	250 02	Int + 7 812 528 4747	900		810
	<u>Dontelekom</u>	250 10		900		810
	* <u>JSCKuban</u>	250 13		900		810
	<u>BM Telecom</u>	250 07		900		810
	* <u>Beeline</u>	250 99	Int + 7 095 258 8888	900/1800		810
	<u>Extel</u>	250 28	Int + 7 0112 5530 60	900		810
	<u>Far Eastern Cell</u>	250 12		900		810
	* <u>Baykal West</u>			900		810
	* <u>Ermak RMS</u>	250 17		900		810
	* <u>Gorizont</u>			900		810
	* <u>SCS Rus</u>	250 05		900		810
	* <u>NCC</u>	250 03		900		810
	* <u>OAQ</u>			1800		810
	* <u>Primteletel</u>			1800		810
	* <u>Uraltel</u>	250 39		900		810
	* <u>North Caucasian</u>	250 44		900		810

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* XXI	250 93	900/1800	810	810
	* Udmurtia		900	810
	* Smarts		900	810
Rwanda	* Rwandacell		900	00
San Marino	Omnitel	Int + 39 349 2000 190	900/1800	00
	Telecom Italia Mobile	Int + 39 339 9119	900/1800	00
	* Wind	Int + 39 320 5000 158	900/1800	00
	* Blu		1800	00
SaudiArabia	Al Jawal		900	00
	EAE		900	00
Senegal	Sonatel		900	00
	* Sentel		900	00
Seychelles	SEZ SEYCEL		900	0
	Airtel		900	0
Sierra Leone	* Celtel		900	0
Singapore	<u>Singapore Telecom</u>	Int + 65 738 0123	900	001
	<u>MobileOne</u>		900	001
	* Sing Tel 1800		1800	001
	* Starhub		1800	001
Slovak Rep	<u>Eurotel</u>	Int + 421 903 903 903	900/1800	00
	<u>Globtel</u>	Int + 421 905 905 905	900/1800	00
Slovenia	Mobitel	Int + 386 61 131 30 33	900	00
	* SI.Mobil	Int + 386 61 1440 404	900	00
Somalia	* Barakaat		900	00
South Africa	MTN	Int + 27 11 445 6001	900	09
	Vodacom	Int + 27 82 111	900	09
Sri Lanka	<u>MTN Networks Pvt Ltd</u>			00
Spain	<u>Airtel</u>	Int + 34 607 123000	900	00
	* <u>Telefonica Spain</u>	Int + 34 900 100909	900	00
	* Amena	Int + 34 656 001470	1800	00
Sudan	Mobitel			00
Swaziland				00
Sweden	<u>Comviq</u>	Int + 46 586 686 10	900	009
	<u>Europolitan</u>	Int + 46 708 22 22 22	900	009
	<u>Telia Mobile</u>	Int + 46 771 91 03 50	900	009
Switzerland*	Swisscom 900	Int + 41 62 28 61 212	900	00
	* Swisscom 1800	Int + 41 62 28 61 212	1800	00
	<u>diAx mobile</u>			00
	Orange			00
Syria	SYR MOBILE			00
Taiwan	LDTA	Int + 886 932 400821	900	002
	Mobitai	Int + 886 931 413131		002
	TransAsia			002
	TWN			002
	Tuntex	Int + 886 938 749104		002
	<u>KG Telecom</u>	Int + 886 938 348404		002
	FarEastTone	Int + 886 931 000099		002
	Chunghwa			002
Tanzania	Tritel		900	000
Thailand	<u>TH AIS GSM</u>	Int + 66 2 299 6440	900	001
	<u>Total Access Comms</u>		1800	001
	WCS			001
	Hello		1800	001
Tunisia	Tunisian PTT			00
Turkey	* <u>Telsim</u>	Int + 90 212 448 75 75	900	00
	<u>Turkcell</u>	Int + 90 212 313 0000	900	00
UAE	<u>UAE ETISALAT-G1</u>		900	00
	<u>UAE ETISALAT-G2</u>	Int + 971 4004 101	900	00
Uganda	Celtel Cellular		900	010
	MTN			010
UK	Cellnet	Int + 44 753 504548	900	00
	Vodafone	Int + 44 836 1191	900	00
	Jersey Telecom	Int + 44 1534 882 512	900	00
	Guernsey Telecom		900	00
	Manx Telecom	Int + 44 1624 636613	900	00
	One2One	Int + 44 7958 121121	1800	00
	Orange	Int + 44 973 100150	1800	00
Ukraine	Mobile comms			810
	Golden Telecom			810
	Radio Systems			810
	Kyivstar JSC			810

Simblll Simblll

Network Codes • 56

72

USA	Bell South	310 15		1900	011
	Sprint SpETC rum	310 02		1900	011
	Voice Stream	310 26		1900	011
	Aerial Comms.	310 31		1900	011
	Omnipoint	310 16		1900	011
	Powertel	310 27		1900	011
	Wireless 2000	310 11		1900	011
	* Pacific Bell			1900	011
	* Airadigm		Int + 920 687 2111	1900	011
Uzbekistan	Daewoo GSM	434 04			810
	Coscom	434 05			810
	Buztel	434 01	Int + 7 3712 320 648		810
Vatican	Omnitel	222 10	Int + 39 349 2000 190	900/1800	00
	Telecom Italia Mobile	222 01	Int + 39 339 9119	900/1800	00
	* Wind	222 88	Int + 39 320 5000 158	900/1800	00
	* Blu	222 98		1800	00
Venezuela	Infonet	734 01		900	00
	* Digital	734 02		900	00
Vietnam	MTSC	452 01			00
	DGPT	452 02			00
Yugoslavia	* Mobtel BK-PTT	220 01	Int + 381 63 9868		99
	Promonte	220 02	Int + 381 81 9898		99
	* Telekom Serbia	220 03	Int + 381 64 789		99
Zaire	African Telecom Net				00
Zambia	* Zamcel				00
	* Telecel				00
Zimbabwe	NET*ONE	648 01			00
	* Telecel	648 03			00
	* Econet	648 04			00

56.

SimbIII SimbIII

Trouble shooting

Most common problems

For any help or problem please e-mail help@simbill.com and we will reply promptly.

Trouble shooting

Most common problems.

When you try to log in you get the message "Program expired".

Cause.

Either the expiry date has arrived and you did not renew or

The settings on your computer have changed or

You have installed a new hard drive on your computer.

Action

E-mail us the problem together with the serial number of that program and your password, to get the serial number. Open SIMBill click on help then about, the serial number will be displayed. We will send you a new registration file by e-mail. When you receive this file just double click it and the problem will be solved.

When you insert a sim card you get the message "unregistered Sim Card"

Cause

You have received new Sim Cards and not registered them.

Action

Insert the CD supplied click on the registration Icon and add the new Sim Card ICCID numbers and submit to us, we will send you a new registration file, to install just click on it and the new sim will now be working.

Glossary of Terms

WAN

Wide area network

LAN

Local area network

CD

Compact Disk

MSISDN

Mobile Station Integrated Services Digital Network

ICCID

Integrated Circuit Card ID

+

Symbol for international call, country code or exit code

MT

Mobile Terminating

MO

Mobile Originating

MNC

Mobile Network Code

MCC

Mobile Country Code

75

VAT

Value added Tax

GST

Goods and Services Tax

SMS

Short Message Service

Sim

Subscriber Identity Module

PC

Personal Computer

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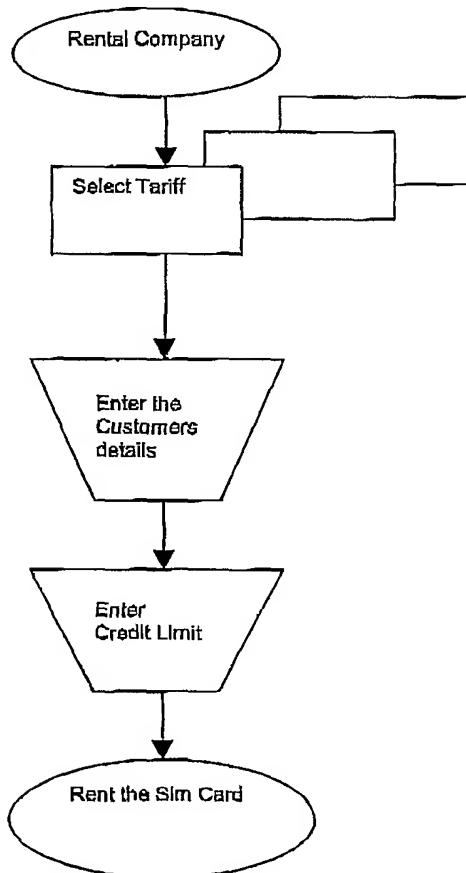
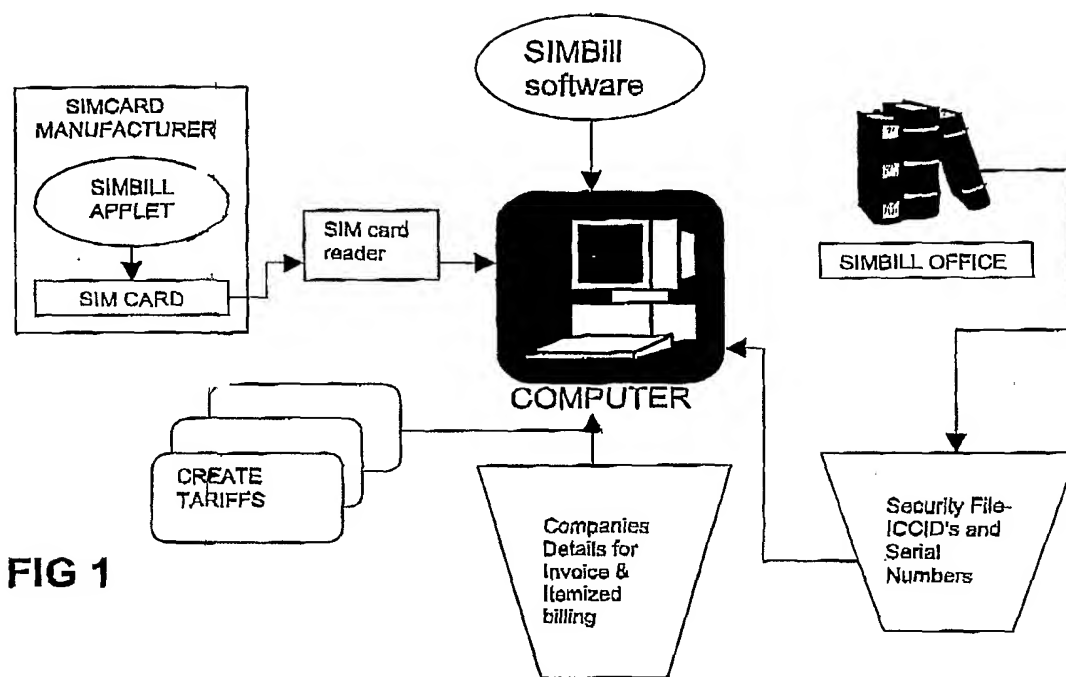
CLAIMS:

1. A method of billing the usage of mobile telephones comprising the steps of:
 - (a) entering a user program onto a SIM card,
 - 5 (b) supplying a hirer with the programed SIM card and software required for rendering accounts and controlling the use of the mobile telephones upon the termination of a hire period.
2. A method as claimed in claim 1 wherein the software enables the hirer or to set tariffs and credit limits, independently of network suppliers.
- 10 3. A method as claimed in claim 1 the user program and software enables the hirer to add or deduct credit over the air using SMS systems.
4. A method as claimed in claim 1 wherein the user program provides the hirer with the ability to;
 - (a) create and alter credit limits,
 - 15 (b) store customer information,
 - (c) set tariffs for calls,
 - (d) block disallowed calls.
5. A method as claimed in claim 4 wherein the user program provides the hirer with the ability to allow free calls at its discretion.
- 20 6. A SIM card resident cellular phone billing system for performing the method of any one claims 1 to 5 the system comprising;
 - (a) a host processor unit having a P.C. application, and
 - (b) a SIM card reading apparatus adapted to access and applet associated with the SIM card, characterised in that the host
 - 25 processor at point of issue is programmable using the P.C. application to control the use of a cellular phone and on return of the cellular phone to its point of issue, and re entry of the SIM card to the SIM card reader, to read the SIM card and generate information as to its usage.
- 30 7. A billing system as claimed in claim 6 wherein the program of the host processor can transfer information on call costs to the SIM card.
8. A billing system as claimed in claim 6 or 7 wherein the program of the host processor can transfer information relating to the telephone user to the

SIM card.

9. A billing system as claimed in claim 6 wherein the program of the host processor can read information stored on the SIM card relating to calls made, numbers dialed and tariffs associated with the calls.
- 5 10. A billing system as claimed in any one of claims 6 to 9 including a cellular phone modem which enables over the air programming and adding or amending credit balances of a SIM card.

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2/3

FIG 3

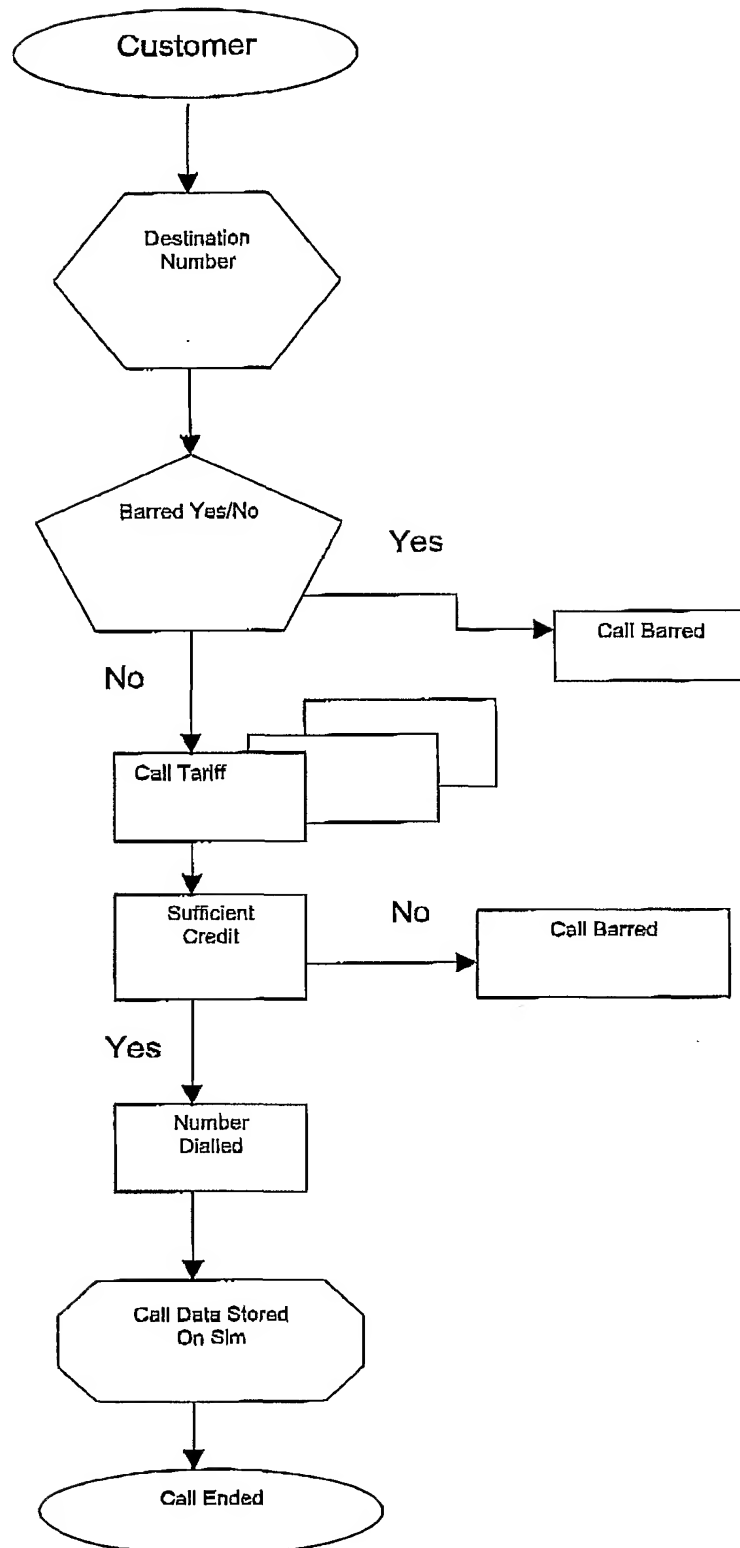


FIG 4

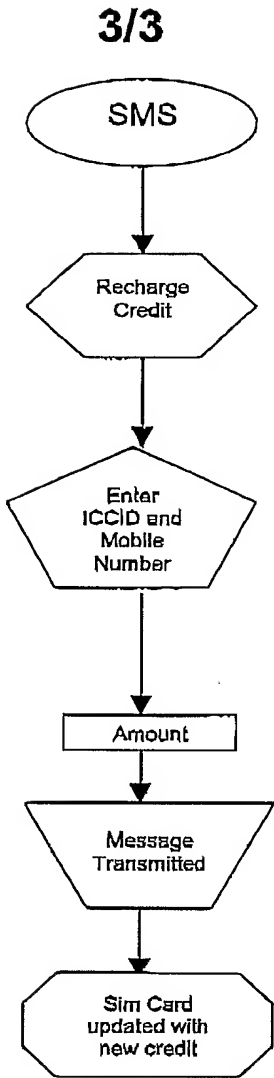
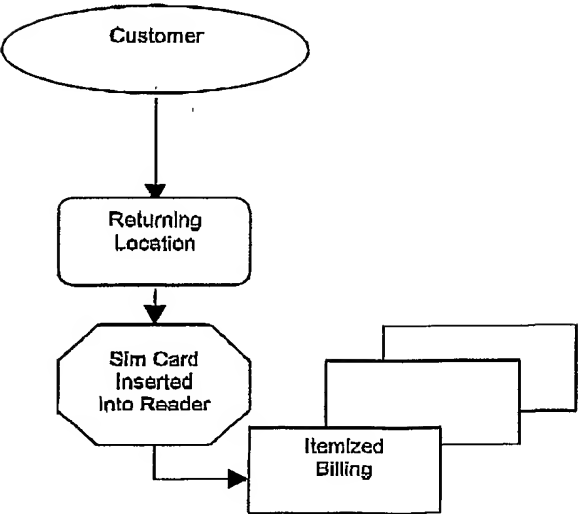


FIG 5



INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU01/01423

A. CLASSIFICATION OF SUBJECT MATTER																						
Int. Cl. ⁷ : H04M 15/00, H04M 17/00, H04Q 7/32																						
According to International Patent Classification (IPC) or to both national classification and IPC																						
B. FIELDS SEARCHED																						
Minimum documentation searched (classification system followed by classification symbols)																						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched																						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)																						
WPAT: KEYWORDS- PHONE, RENT, HIRE, BILL, ACCOUNT, CHARGE, SIM, MOBILE AND SIMILAR																						
C. DOCUMENTS CONSIDERED TO BE RELEVANT																						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																				
X	Derwent Abstract Accession No. 2000-443961/39, Class T04, DE 200 04 892 U1 (SAUER) 31 MAY 2000 & US 2001/0023180 A1 20 SEPTEMBER 2001 Whole document	1 - 10																				
X	WO 99/41919 A2 (SWISSCOM AG et al) 19 AUGUST 1999 Whole document	1 - 10																				
X	Derwent Abstract Accession No. 98-273672/25, Class W01, DE 298 00 711 U1 (SWISSCOM AG) 14 MAY 1998 & US 6223026 B1 (MARTSCHITSCH) 24 APRIL 2001 Whole document	1 - 10																				
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"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone																			
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Date of the actual completion of the international search 21 December 2001		Date of mailing of the international search report - 2 FEB 2002																				
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer R.W.J. FINZI Telephone No : (02) 6283 2213																				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU01/01423

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96/24229 A1 (McGREGOR et al) 8 AUGUST 1996 Whole document	1, 2, 4 - 6, 8 - 10
Y	With AU-A-80834/98	3, 7
X	US 5325418 A (McGREGOR et al) 28 JUNE 1994 Whole document	1, 2, 4 - 6, 8 - 10
Y	With AU-A-80834/98	3, 7
Y	AU-A-80834/98 (ALCATEL ALSTHOM COMPAGNIE GENERALE D'ELCTRICITE) 4 MARCH 1997 Whole document	3, 7

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/AU01/01423

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Patent Document Cited in Search Report				Patent Family Member			
DE	20004892	FR	2806569	US	2001023180		
WO	9941919	AU	22620/99	EP	1057350		
DE	29800711	JP	11196198	US	6223026		
WO	9624229	AU	49010/96	BR	9606875	CA	2211892
		CN	1176039	EP	808547	EP	1067752
		US	5577100	US	6198915	US	2001000777
US	5325418	US	5625669	US	6243574	AU	29478/95
		WO	9600481				
AU	8083498	AU	80834/98	CA	2243617	EP	899973
		FR	2767626	JP	11136752	US	6278885
END OF ANNEX							